The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

SEPTEMBER 22 1956



More and more babies are enjoying freedom from napkin rash since extensive national advertising made Saylon's effectiveness against this condition widely known.

Savlon, which contains 'Cetavlon', quickly soothes soreness d-used regularly-keeps babies comfortable and contented. In dition to this important use, Savlon is becoming increasingly pular for its value in the treatment of wounds, burns, cuts, atches, and many common skin complaints. Retail Price 2/6d.

ADVERTISING SUPPORT

Press. Frequent Savlon advertisements continue to appear in these National papers and magazines:—DAILY EXPRESS · TIMES NEWS CHRONICLE · DAILY HERALD · DAILY MAIL · DAILY MIRROR DAILY SKETCH · SUNDAY PICTORIAL · SUNDAY GRAPHIC · NEWS OF THE WORLD · WOMAN'S SUNDAY MIRROR · WOMAN'S OWN WOMAN'S WEEKLY · HOME CHAT · HOME NOTES · FAMILY DOCTOR RADIO TIMES · PRACTICAL HOUSEHOLDER · JOHN BULL and in a long list of Provincial papers.

Radio. On Radio Luxembourg, every Monday at 7.45 p.m.

DISPLAY AND SELL

SHOWCARDS AND LEAFLETS ARE READILY AVAILABLE

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED, WILMSLOW, CHESHIRE A subsidiary company of Imperial Chemical Industries Limited

Ph.605T

for Potter's CATARRH PASTILLES

and CRYSTALLISED CATARRH PASTILLES

THROUGH WHOLESALERS ONLY

BONUS TERMS are available on MINIMUM QUANTITIES of

3 DOZEN TINS OF EITHER VARIETY OR ASSORTMENT

Wholesale 13/6 per doz. Retail 2/-

One tin in every dozen is FREE!

On minimum parcels of 36 tins, you will only be charged for 33, and pro rata for larger quantities.

Operative from SEPT 3rd until NOV 30th



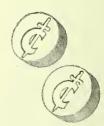
POTTER & CLARKE LIMITED

River Road · Barking · Essex · Tel: RIPpleway 3041



The Benefit

of Codis



CODIS is a compound tablet that provides CODEINE and PHENACETIN with CALCIUM ASPIRIN which replaces the ordinary aspirin in tab. codein. co. B.P.

"CODIS" offers all the well-known therapeutic properties of tab. codein. co. B.P.—but greatly diminishes the chance of gastric upset caused by undissolved particles of ordinary aspirin in tab. codein. co. B.P.

This considerable benefit is becoming

increasingly known to doctors. Their confidence in Codis arises from their experience. Let their experience be your guide.

When your customers ask for codeine tablets, recommend Codis—the safest and the best.



COMPOSITION

Each Codis tablet contains:—Acid. Acetylsalicyl. B.P. 4 gr., Phenacet. B.P. 4 gr., Codein. Phosph. B.P. 0·125 gr., Calc. Carb. B.P. 1·2 gr., Acid. Cit. B.P. (Exsic.) 0·4 gr.

CODIS is not advertised to the public

NEW SIZE DISPENSING PACK. (Purchase Tax Free.) 500 tablets in distinctive gold foils of 10 tablets each, 25/- per box.

PUBLIC SIZE. Pack of 20 tablets (in foil), 2/8 inc. P.T.

RECKITT & COLMAN LTD., HULL & LONDON (PHARMACEUTICAL DEPT., HULL)

Once again PRINCE GOURIELLI preparations lead the field

NEW STREAMLINED TRAVEL PACKS

For your Christmas Gift Trade!



NEW! Prince Gaurielli preparatians in silver-grey plastic spray battles, Tanic Hair Graam, After-Shave, Talcum, Calagne, Shampao and new Deadarant,

T'S A DOUBLE-FIRST for Prince Gourielli Preparations! NEW streamlined Travel Packs with NEW unbreakable plastic bottles—for the first time ever on the men's market. Here are the most exciting, distinguished and practical Christmas gifts for years—with an instant contemporary eye-appeal that will sell on sight.

Powerful national advertising will bring you big demands for these Prince Gourielli Travel Packs—and for the original 'Cocktail-Shaker' range. Display Prince Gourielli preparations in your window and shop, use Prince Gourielli FREE dealer blocks in your own advertising, and channel the demand right up to your counter.



NEW! Prince Gaurielli Travel Kits, superbly styled in simulated pigskin, each cantaining a choice of three preparations. From 33/6.



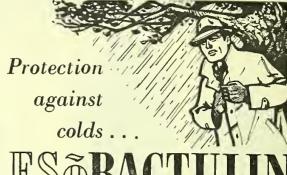
After-Shave Lotion 17/6 • Talcum Powder 10.6 • Tonic Hair Groom 17/6 • Eau de Cologne 21/- • Shaving Cream Bowl 12.6 • Tonic Hair Shampoo 10/6 • Gift Sets from 37/6

* AGENCY APPOINTMENTS ARE ON A STRICTLY SELECTIVE BASIS, SO APPLY NOW TO CATCH THE XMAS TRADE

Prince Gourielli Toilet Preparations for Men

SOLE PROPRIETORS & DISTRIBUTORS: HELENA RUBINSTEIN, 3 GRAFTON STREET, LONDON, W.I.





ORAL VACCINE CAPSULES

6 capsules taken over 5 days gives most people 3 months protection from colds

Retall price 7/102d. (complete course) inc. P. Tax

STOCK NOW TO MEET THE DEMAND

Order from your usual Wholesaler

333% DISCOUNT plus Bonus 13 to the dozen

SOUTHON LABORATORIES LIMITED · LONDON · S.W.15

IT WILL BE ANOTHER-Glovelies Christmas

LINCOLN

This year, large-space advertisements in national magazines will stimulate an even greater demand for 'Glovelies.' These modern House and Garden Gauntlets are an ever popular Christmas Gift which brings you profitable, year-round repeat business. Stock—display—and sell 'Glovelies' NOW!

'GLOYELIES' Knitted Fabric-Lined, Blue P.V.C. House and Garden Gauntlets, packed in sales-creating cartons. Sizes: Small, Medium, Large. Retail 5/8 per pair.

'NORTHANDS' Knitted Fabric-Lined, Tan P.V.C. Gloves for Handymen, Gardeners, Motorists, etc., packed in collars. Gauntlet Cuffs sizes: 7, $7\frac{1}{2}$, $8\frac{1}{2}$, $9\frac{1}{2}$. Knitted Wrists: 7, $7\frac{1}{2}$, $8\frac{1}{2}$, $9\frac{1}{2}$. Retail 6/11 per pair.

POLKA DOT JERSEY GLOVES for dusting, cleaning, etc., with fleecy inside. Colours: Blue, Red, Black dots on white ground. Exceptionally comfortable, smart and hard wearing. Medium size only. Retail 3/8 per pair.

Retail enquiries to: — JAMES NORTH DISTRIBUTORS,
Kirkman House, 54a Tottenham Court Road, London, W.1
LANgham 4811



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a new cough suppressant



'PECTAMOL' Linctus

B.D.H. research has resulted in the introduction of PECTAMOL Linctus, an effective and palatable anti-tussive agent.

- Suppresses useless, dry, unproductive cough
- Moderates purposeful, productive cough
- Aids expectoration

	TRADE	RETAIL
Bottles of 60 ml.	2/6	4/6
Bottles of 250 ml.	8/9	_
Bottles of 2 litres	56/1	_
	(Incl. bottle at 1/6).	

- Free from soporific, nauseating, constipating and toxic effects
- Contains no opiates or their derivatives

The active constituent of Pectamol Linctus is the citrate of the diethylaminoethoxyethyl ester of \a:\a-diethylphenylacetic acid ('Oxeladin')

THE BRITISH DRUG HOUSES LTD LONDON N. 1

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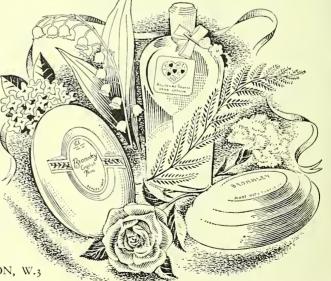
Brounley for the Bath

BRONNLEY
FINE SOAPS AND
TOILET PREPARATIONS

Exquisitely Perfumed
Elegantly Presented
Regularly Advertised
Preferred by
Discriminating Customers

H. BRONNLEY & CO. LTD., LONDON, W.3







Perennial Profit

From the chemist's point of view, the advantage of stocking a laxative is that

the demand for it is continuous—not
seasonal. When the laxative is as efficacious and
well known as Agarol, it is indeed a profitable
venture. The gentle yet undeniable persuasiveness
of Agarol makes it very useful for many types of
patient . . . elderly and very young people, pregnant
women and sufferers from constipation and haemorrhoids.

Agarol is a preparation that you can supply with every confidence whenever you are asked to recommend an aperient. It is suitable for use in any age.

No Warner preparation has ever been advertised to the public

Agarol is available in bottles containing 6 and 14 fluid ozs. at 3/9d. and 7/5d.; list price per dozen 27/- and 54/- respectively, excluding Purchase Tax; for dispensing only, in tax free bottles of 80 fluid ozs. at 18/6d. each.

AGAROL

P.A.T.A.



WILLIAM R. WARNER & CO. LTD., Power Road, London, W.4



An attractively packed, steady selling line of known efficacy

Of the three examples illustrated, two are from our Chemist's Own Brand range of nine different styles which are designed to display your Own Name and Brand Mark.

The space for the latter is indicated by the arrows.

ARTHUR H. COX & CO. LTD. BRIGHTON . ENGLAND

RHEUMATIC



TABLETS

Brighter Sales ahead EVANOL 5 covers them all:

EVANOL Colourant Range

Following the great success of our Brown No. 18, we have now introduced our (new) Black No. 16 which is a semi-permanent tint—cum rinse cum brightener for Grey, Black or Dark Hair. There are now five basic shades of Evanol so that there is an Evanol Colourant to suit every hair shade. Press Advertising and Publicity will create a demand for these lines and many new customers will be recommended by the thousands of regular Evanol users.

*(NEW) BLACK No. 16 (Grey, Black or Dark)

BROWN No. 18 (Grey or Bleached)

GOLDEN (Blonde) No. 12

COPPER No. 10

AUBURN No. 14

MAKE SURE OF YOUR STOCKS NOW — Sold in 1 oz. bottles at 3/2 — 2 oz. at 5/6. Order from your usual supplier or send us your enquiries. FREE SHADE and SHOW CARDS are AVAILABLE FROM

EVANOL LTD. HIGHBURY, LONDON, N.5 (Enquiries Dept.).

Tel.: CANonbury 1984.

For purity-Key Glass



Glass containers, clear, strong and attractive to the buyer's eye, also excel in preserving the essential goodness of products. By their "seeability" they declare the quality of the contents, creating strong sales appeal. And the glass which excels on all counts is Key Glass. Closures of all kinds are also supplied—printed, embossed or plain.

KEY GLASSWORKS LTD

Factories at New Cross, Alperton, Harlow Sole Selling Agents: — Ronald Gale & Co. Ltd



First Class in GLASS





COLOUR CATCHES

colour pages – advertising Bourjois in all the magazines and papers women read... the ones they rely on for beauty news and advice. To begin with they're amused by the attractive Christmas scenes... but they can't miss the pack displays that really sell!

COLOURFUL GIFT PACKS — to take their fancy just when presents are in the air.

COLOURFUL DISPLAYS – to catch their eye And to catch sales for you.

BRIGHTEN YOUR SALES – by stocking up with Bourjois, displaying Bourjois.







HRISTMAS SALES BOURJOIS



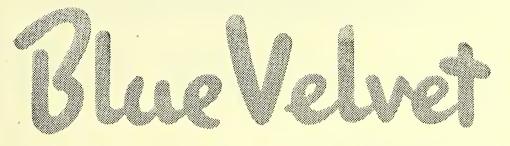




THE METAL BOX COMPANY LIMITED

Metal Containers · Paper Products · Flexible Packages · Plastic Films and Laminates

The Langham · Portland Place · London W.1.



BONUS OFFER

Until Further Notice

1 FREE BOTTLE IN EVERY DOZEN

ON MINIMUM ORDERS OF £3

2 FREE BOTTLES IN EVERY DOZEN

ON ORDERS OF £5 AND OVER



QUANTITY DISCOUNTS

apply to all orders for Smith & Nephew products totalling £7.10.0. and over. Other lines such as Nivea and Elastoplast products may be included with Blue Velvet bonus orders to qualify. Order value £7.10.0. and over— $3\frac{3}{4}\%$ discount.

Order value £15.0.0. and over— $7\frac{1}{2}\%$ discount.

Blue Velvet sales up. About 30% more Blue Velvet has been bought from chemists since January, 1956 than during the same period last year.

What's more, this Blue Velvet bonus offer coincides with a new phase in our advertising campaign starting now!



Blue Velvet sales are bound to boom this autumn and winter. Place your orders while the bonus offer stands!

Full details have already been mailed to all chemists. If you have not received your copy, please write to:

SMITH & NEPHEW LTD. - WELWYN GARDEN CITY - HERTS

MORE AND MORE PEOPLE ARE ASKING FOR MORE

In answer to tremendous demand for a pack holding several Linc-o-Lin Beer Shampoos—to sell beside the ever-popular sachet—here is the World's only Beer Shampoo in a 'barrel' holding four full, luxury shampoos! Charmingly designed—in translucent polythene—to slip easily into a handbag, it is sure to attract new customers... and we know it is just what countless regular users want.

The price is right, too.

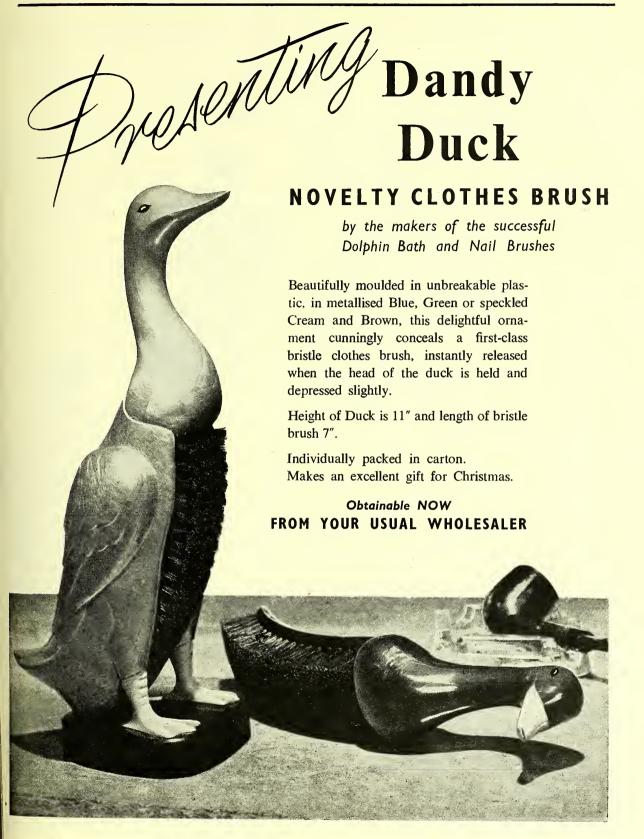




ORDER THE NEW LINC-O-LIN BARREL EDOM YOUR WHOLESALER NOW

ONE OF THE FAMOUS Line of Min HAIR PRODUCTS

Lincoln Hair Products Ltd, Shaftesbury Mews, Kensington W.8, Tel. WES.6368



HUGHES BRUSHES LTD., SLOUGH, BUCKS

Introducing a real For warmth at night



The very popular Ladye Jayne cushion tipped hair grips are smooth inside to prevent 'drag'. They are now available in this new attractive handbag wallet which contains 24 grips.

STRONG ADVERTISING BEGINS OCTOBER

WOMAN'S OWN WOMAN & BEAUTY MODERN WOMAN . SHE WOMAN'S ILLUSTRATED **EVERYWOMAN**



Ladye Jayne HAIR GRIPS AND CLIPS

FROM YOUR USUAL WHOLESALER. If in any difficulty write to the manufacturers: JARRETT, RAINSFORD & LAUGHTON LTD., Birmingham 14

OFFER YOUR CUSTOMERS THIS WIDE RANGE OF HIGH OUALITY COVERED HOT WATER BOTTLES

MANDELLE ' Ouilted'

Covered in Quilted Satin Pastel Colours: Beige, Pink, Blue, Gold, Green, or Lavender. Each wrapped in Cellophane envelope. 36 per carton, 6 of each colour.

MANDELLE

' Velux'

Covered in Embroidered Quilted Velveteen. Colours Crimson, Gold, Green, or Blue. Each packed in Gold presentation Box. Fully guaranteed. 24 per carton 6 of each colour.



MANDELLE

'Velour'

Covered in Rich Velour. Colours: Blue, Beige, Lavender, Coral, Green, Gold, Each wrapped in Cellophane envelope. Fully guaranteed 36 per carton, 6 of each colour.

MANDELLE

'Velveteen'

Covered in Printed Velveteen. Base colours: Gold, Green, Blue, Crimson. Each wrapped in Cellophane envelope. 36 per carton, 9 of each colour.

Please order through your wholesale house



COVERED HOT WATER BOTTLE

Manufactured by

J. MANDLEBERG & CO. (RUBBER) LTI Salford 6, Lancs. Pendleton: 1441

M. W. HARDY & CO. (OVERSEAS) LTD

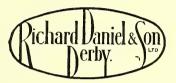
Pinners Hall · Great Winchester St. · London · E.C.2

WORLD EXPORT AGENTS

for

PENICILLIN PREPARATIONS

MANUFACTURED BY



THE RANGE INCLUDES

LOZENGES · TABLETS · OINTMENTS · Etc. Aids to Dispensing Outfits of Cream and Drops

set your tills a glitter with



Twikle

Spark off a trail of SALES with TWINKLE.
The party season's nearly here, festivities abound you can't afford to be without TWINKLE, it's sheer magic. Stock up and let YOUR counter SPARKLE.

* Remember—TWINKLE comes in a wonderful range of colours.

ROSEDALE PRODUCTS, Birkbeck Road, E.8



Colourful Wrappings for the CHRISTMAS SEASON

BRIGHT, ATTRACTIVE DESIGNS . . . ORDER NOW!



ROBIN DESIGN

Bright and colourful . . . seasonal and appropriate . . . our new Robin design Christmas Wrapping Paper is now available. Printed in red, green and gold on good quality white sulphite, it incorporates typical Christmas motifs, and the slogan, "Merry Christmas."

Size of sheets ... 20" x 30"

Ream of 480 sheets	Half ream	144 sheets
48/-	24/6	15/6

BELL AND LANTERN DESIGN

Another gaily-coloured wrapping paper for the Christmas season. In three colours—green, red and gold—on white sulphite. The design includes traditional symbols, and the slogan, "Merry Christmas."

Size of sheets ... 20" x 30"

Ream of 500 sheets	144 sheets
48/-	15/6

SULPHITES AND TISSUES—FULL RANGE

We also stock a full range of white and coloured sulphite wrapping papers; white and coloured tissues; kraft and sulphite counter rolls. These are papers of the best quality.

CERTOR CHRISTMAS SATCHEL 5" x 7" x 9\frac{1}{2}"

The new Certor Christmas Counter Sachel, also in three colours—red, green and gold—is a pleasing and appropriate bag for the smaller purchases. So convenient, too. It is made of bleached kraft paper. The slogan, "Greetings," is embodied in the all-over design. Minimum quantity, 500.

70 1000	500	1,000	5,000	10,000	25,000
Per 1,000	23/6	22/9	22/-	21/6	21/-



FOR YOUR CHRISTMAS DISPLAYS

CREPE PAPERS (DENNISON'S)
34 COLOURS
FESTOONS • PELMETS
COLOURED CORRUGATED ROLLS
PRINTED & METALLIC PAPERS
DISPLAY STANDS
DEXIT DISPLAY-TOOL OUTFIT
ELECTRICAL GOODS, ETC.

You will find these and other goods for the Christmas season in our special folder, "Christmas in the Pharmacy." A copy of the folder, with paper and bag samples, sent on request.

CERTOR FILM-FACE BAG 7" x 10"

A very attractive bag which will give distinction to the Christmas gift. The film front is printed with a striking seasonal design in gold, red and white.

Per 100	100	250	500 1,000		
rer 100	6/6	15/-	29/-	56/3	

CERTOR BEAUTY-AID BAGS. Two sizes

Dainty, colourful bags for the cosmetic trade. They are in photogravure. Colours—Red, black and gold.

		500	1,000	5,000	10,000
Per 1,000	6" x 4"	_	17/6	17/2	16/10
	$7\frac{1}{2}$ " x 5"	22/6	21/6	21/-	20/6

ABOVE GOODS SOLD TO CHEMISTS ONLY

MACDONALD'S of MANCHESTER

MACDONALD & SON LTD PORTLAND MILL ASHTON-UNDER-LYNE LANCS



★ Swandown quick-selling lines —Skin-Glo, Turtle Oil Beauty Cream and Turtle Oil Beauty Mask — are being continuously featured in 26 women's magazines to a total circulation of no less than 78,571,454 this year. ADVERTISEMENTS LIKE THESE are creating tremendous interest and you have possibly already had to "regret" through not having Swandown in stock. The volume of our daily post shows the thousands of prospective buyers who are so loyal to the name that they will not accept a substitute and prefer to write to us direct. This business we would prefer to pass on to you.

Please write for samples and price list of the whole Swandown range.

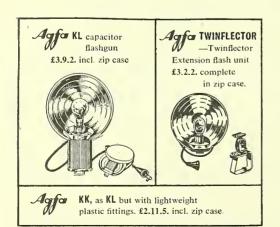
SWANDOWN COSMETICS, 191 LATIMER ROAD, W.10

SWANDOWN COSMETICS, 191 LATIMER ROAD, W.10



MAKES STILL MORE CASH!

Flash undoubtedly means better business during the winter months, but Agfa Flash means even more business. Backed by the world famous name of Agfa this fine range of Flash equipment is the ultimate in reliability and compactness. Show them and they sell! The selling price includes the fine zip case.





-the neatest, most compact unit ever designed

Opened, its reflector fans out ready for a full power flash performance. Closed, the Agfalux measures just $4\frac{1}{4}$ in. x $2\frac{1}{4}$ in. x $1\frac{1}{2}$ in.; packs away in a neat zip case which will fit on your camera case sling. £4 - 12 - 10 incl. zip case.

AGFA LIMITED DEER PARK ROAD . WIMBLEDON FACTORY ESTATE . LONDON . S.W.19 Tel: CHErrywood 1121

1,1,1,1,1,111 Unnouncing

ILMO BAILLY

AUTUMN BONUS SCHEME

EVERY Retail Chemist can take advantage of this splendid PULMO BAILLY Autumn Bonus Scheme which will boost sales and increase retailers' profits! All that is necessary is for the pharmacist to place his order for PULMO BAILLY on the special display terms now offered, and to show the attractive new showcard in his pharmacy, to bring immediate results in quicker turnover and a better return on

PULMO BAILLY is already well-established with the public and the medical profession, and it only remains for every chemist to cash in on this generous scheme every bottle sold. and reap the benefit. Time is short, one month only, so chemists are advised to con-

DISPLAY AND SELL PULMO BAILLY! tact their wholesalers at once!

Special Display Terms for ONE MONTH only

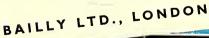
24th September — 20th October

12 bottles for 31/-(instead of 34/-) giving a profit of

over 1/3 per bottle

on retail price of 4/8 per bottle (including P.T.)

Orders should be sent without de!ay





Manufacturing Chemists

MOUNT PLEASANT · ALPERTON · WEMBLEY · MIDDX





HALEX top sellers

certain to make the biggest-ever Christmas impact!



A long-wearing precumatic brush designed especially for children. It keeps hair healthy—and it's a pleasure to use. In pink, blue or lemon pearl.

Retail price: 12/11d.

Halex 'Savoy'
Gents' 5-Piece
Combined Set (D.411)

A luxury gift at a modest rice, it includes hairbrush, comb, magnivise mirror, soap box and pure bristle shaving brush. All handsomely styled and finished.

In ivory white.

Retail price: 39/11d.

Halex Ladies' Combing Brush (D.260) It combs and brushes at

the same time . . removes
tangles without tugging . . .
and massages the scalp.
The pad comes out
for washing. In
pastel shades of
pink, blue, green
Retail price:
12/11d.



The polythene quills brush, comb and gently massage—all at the same time. The pad comes out for washing. In ivory white, attractively gift-packed. Retail price: 12/11d.

Halex Men's Combing Brush (D.269)

Halex Military Brush (D.157)

A handsome brush with strong "rondated" nylon tuits. Finished in tortoiseshell pattern or imitation grained ivory and attractively gift-packed.

Retail price: 12/11d.

Get in touch with your usual supplier today!

HALEX (A DIVISION OF THE BRITISH XYLONITE CO. LTD.)
HIGHAMS PARK, LONDON, E.4

true

tranquillity

assured . . .

With the advent of MILTOWN, relief of tension and anxiety can now be secured with a new degree of certainty ... a new degree of safety. MILTOWN is without parallel among tranquillizing agents. It has proved effective in cases where other tranquillizers have failed. It shows a significant absence of toxicity and almost complete freedom from side effects. It is fully effective by mouth for day-time sedation and for inducing calm and natural sleep without narcosis by night.

MILTOWN

The safe tranquillizer with muscle-relaxant action

(2 methyl-2-n-propyl-1, 3 propanediol dicarbamate) In tablets of 400 mg. for oral use: bottles of 50

LEDERLE LABORATORIES DIVISION

Cyanamid PRODUCTS LTD. LONDON, W.G.2

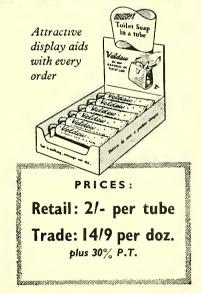


Something every woman has been looking for

IT's WHAT women have wanted for years—soap in a tube. The first and only soap in a tube on the market, and super-fatted soap of the finest quality at that.

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Order now from your wholesaler or from E. GRIFFITHS HUGHES LTD., MANCHESTER



ON SEPTEMBER 28

2,600,000 PEOPLE

WILL LISTEN TO ...

... the opening broadcast from Luxembourg of a series telling the OATINE story. Between 9 and 9.15 p.m. (the peak period) 2,600,000 listeners will hear the announcer explain the unique cleansing and rejuvenating properties of OATINE (night) CREAM.

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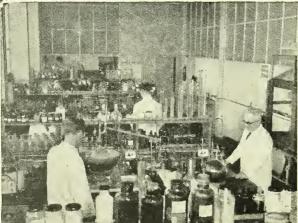
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These new striking designs are selling
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Specially designed to catch the customer's
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for every pocket. Their sales appeal is
irresistible.

Show them on your counters, in your windows for eyecatching Christmas displays that sell, with a good profit margin for you.

Look through these pages and order at once!



ANNIVERS ARY

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in gilt
finish with
bottle of French
perfume. Attractive
gift box. Retails at

12/11

REGENCY CHAIR

in silver finish with bottle of French perfume No.5 packed in striped gift box. Retails at

4/11







in gleaming silver finish mounted on a plinthcarrying gold football bottle of French perfume. Individually boxed.

Retails at 10/6

COTTAGE Q LAMP





DOLLY **VARDEN BASKET**

gracefully designed in gold or pastel shades. Deep Violet and Bouquet perfumes. Attractively boxed.

Retails at 5/11

Send Now!

For the 1957 colour brochure of the new NIKKI NOVELTIES showing these and other attractive designs to

NIKKI NOVELTIES LTD. **WOOD LANE, LONDON, W.12**



EXTRA business

you must not miss!

HERE IS A **NEW** PRODUCT YOU HAVE <u>NEVER</u>
SOLD BEFORE, AND THEREFORE IT REPRESENTS
NEW **EXTRA** BUSINESS FOR YOU!

Evan Williams

Julip tissues

AUTOMATICALLY DELIVERED
Hygienic tissues for use with lipstick make-up

COST 4/2 DEEN NO PURCHASE TAX. RETAIL 6d. PAERET

A possible EXTRA sale to EVERY woman customer.

STOP PRESS

National advertising
begins on October 15th



This brilliant NEW
product by Evan Williams is
printed in pleasing pastel colours,
making a neat and
compact display

INTRODUCTORY OFFER

I DOZ. **FREE** BONUS WITH EACH ORDER FOR 3 DOZEN MEANS

OVER 100% PROFIT

by Evan Williams

WE WILL INVOICE 4 DOZ.
AS 3 DOZ. IN THIS
INTRODUCTORY OFFER

Complete order form and post NOW for this great OFFER!

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AINTREE ROAD
PERIVALE, MIDDLESEX

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OF OF	I DOZ. 6d. Tulip Tissues	NO CHARGE					
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NAME							
ADDRESS							

Barnet

Attractive, inexpensive, excellent value... just what good gift lines should be. The new Barnet range is carefully designed for the widest appeal yet for your customers seeking the out-of-the-ordinary (don't we all at Christmas?) they will find new ideas in plenty. Ideas that promise you extra sales and profits.

Ask your wholesaler to show you the full Barnet Gift Range and very favourable prices (or he will send you the illustrated Barnet Christmas Brochure on request).



BARNET TRAVEL SET

A completely new combination toilet set in beautifully finished plastic, making a handsome lady's gift at a quick-selling price.

Retails at 16/6d.

TRINKET TRAY AND COMB SET

Here is a modestly priced gift with lots of appeal. Trinket tray with two matched combs in this presentation window pack. Retails at 3/6d.





PEARLUXE 3-PIECE BRUSH SET

A hair brush, dressing comb and handy cloth brush in a beautiful new pearlescent plastic in this distinctive new pack.

Retails at 7/6d.

No. 21 VANITY CABINET

Contains 2½ dozen popular vanity sets retailing at from 1/6d. to 3/6d. from this neat quick-sale dispenser.



BARNET MANICURE SETS

Here is just one from the distinctive new range of attractive gift sets retailing from 1/4d. to 11/9d. each. Right: M47 retails 9/11d.

ft sales



ideas for



BARNET GIFT-CARDS

Here are three refreshing new Gift Cards from the Barnet range, combining both an attractive gift and the traditional Christmas card at a price as low as either.

In order respectively:

No. 1000 Three-Comb Set in flitter in Card retailing 2/3d. No. 5000 Cloth Brush/Comb Card retailing 2/6d.
No. 2000 Gents' Comb/Nail/

File Case in Card retailing 2/6d.



No. V20 MANISET CABINET

Displays and dispenses 21 dozen manicure sets in six designs and six colours; made in delightful "Venetian" plastic. Priced from 3/6d. to 9/11d. each. Ask also about other Barnet quick-sale cabinets designed to do the selling for you.



tock Barnet profit lines this Christmas



MISTLETOE GIFT Perfume and Stick Cologne. Retail 8/9



for lovely gifts

PERFUME FLOWER GIFT

Perfume, flower soap. Retail 5/9



Perfume, soap

and Cologne. Retail 9/6





Cosmetics "hold-all" of Kiss, Beauty Puff and Stick Cologne. Retail 12/6

ANCHOR

GIFT No. I

Corvette Shaving Bowl and After-Shave

Retail | 1/3



ROULETTE WHEEL

Two Perfumes and working Roulette Wheel and board. Retail 7/6



Kiss-stick and Beauty Puff in Paris "hat box". Retail 146





BELL



Talcand Bath Cubes.

GIFT No. 2



Perfume and matching Talc, Cologne and Soap. Retail 25 6

Perfumed Soap and Bath Blossoms. Retail 7/3



GONDOLA GIFT

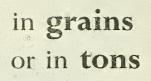
Fragrant soap and Perfumed Cologne.

Retail 7/3



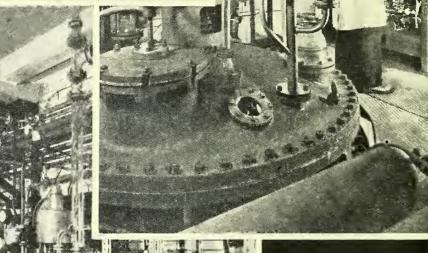


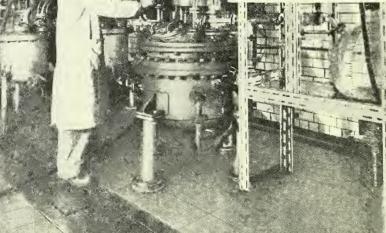




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for home and export





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The strictly accurate, analytical control of GEIGY Barbiturates at all stages in their manufacture ensures that every grain of the many tons produced in our works

is of the same, highest-possible, state of purity. GEIGY Barbiturates are used with confidence by the Medical Profession in all parts of the world.



GEIGY PHARMACEUTICAL COMPANY LTD.

MANCHESTER



He's one of 800,000 reasons

WHY HEINZ STRAINED FOODS SALES ARE GROWING

By selling Heinz Strained Foods you can tap a market of over 800,000 potential customers. That's the number of babies of Strained Foods age in Britain to-day, Most of them are already customers for Heinz Strained Foods, and the numbers are still increasing.

What a market for you! This is why it's growing:

MOTHERS ARE READING HEINZ NATIONAL ADVERTISING Advertisements with strong mother-appeal are appearing in leading women's magazines. They persuasively sell the variety and goodness of Heinz Strained Foods.

MOTHERS SEE HEINZ DISPLAYS

Displays remind mothers of the 19 kinds of Heinz Strained Foods. Colourful and eye-catching displays will help you sell more Heinz Strained Foods - and a greater variety, too.

800,000 customers will be wanting their meals to-day. To get your share of this market, display and recommend Heinz Strained Foods.



H. J. HEINZ COMPANY, LTD., HARLESDEN, LONDON N.W.10



THE CHEMIST AND DRUGGIST

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 166

September 22, 1956

No. 3996

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is a joy for ever"



"But beauty faded has no second spring"

"Absence makes the heart



grow fonder"

"Out of sight



out of mind"

"Too many cooks spoil the broth"



"Many hands



make light work"

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BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Volume 166

SEPTEMBER 22, 1956

No. 3996

"Pretty Colours" on Pills

WORLD HEALTH ORGANISATION COMMENT

THE European Committee of the World Health Organisation has been discussing poisons as a hazard in the home, and has commented in that connection on "pretty colours . . . on pills."

A résumé of the committee's report of its session that ended on September 13 arrived in London on September 19. On the subject of poisons as a hazard in the home, it states that "on the one hand there are insecticides and corrosive liquids which are kept in many homes, particularly on farms; on the other, dangerous medicines which manufacturers have tried all too successfully to make attractive with bright wrappings, pretty colours, sugar coating on pills, etc." The committee suggested that children and elderly persons should be protected against dangerous drugs, corrosive liquids, and other hazards. The value of education as the greatest single measure in the prevention of accidents is stressed by the committee.

Statutory Committee

INQUIRY TO BE RESUMED

THE Statutory Committee of the Pharmaceutical Society is meeting at 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m. on October 3, to resume an inquiry commenced on October 5, 1955, concerning reports that a member of the Society was under the influence of drink or drugs to such an extent as to be unfit to carry out his duties as pharmacist in charge of a business.

Chemistry Fellowship

FOR POST-DOCTORATE STUDY

THE Corday-Morgan Memorial Fund Executive are inviting applications from British Commonwealth citizens for the Corday-Morgan Commonwealth Fellowship. The Fellowship is being awarded for post-doctorate (or equivalent) study in any branch of chemistry and will be tenable for one year in some part of the British Commonwealth other than that in which the candidate received his scientific education, at any university, research institution, or other place of study approved by the Memorial Fund Executive. The Fellowship is valued at £700 per annum, but additional allowances may be granted in appropriate cases for travel, university fees, etc. The appointment dates from October 1, 1957, or other date that may be arranged. The appointment is being made by the Executive not later than May 10,

1957. Application forms, which must be returned by March 1, 1957, and copies of the general regulations governing the award may be obtained from the secretary, Corday-Morgan Memorial Fund Executive, c/o The Chemical Society, Burlington House, London, W.1.

National Insurance

NEW HIGH-VALUE STAMPING SCHEME

FOR the convenience of employers who can apply it to at least fifty regular employees, a scheme is being introduced by the Ministry of Pensions and National Insurance for the stamping of contibution cards at yearly, half-yearly or quarterly intervals. Contributions must be paid in advance. The arrangements include the supply of special high-value stamps. Employers wishing to adopt the scheme should apply to the Ministry of Pensions and National Insurance, F.D.18, Newcastle-on-Tyne, on form C.F.46, available at local offices of the Ministry.

Wages by Cheque

CHANGE IN LAW URGED

THE Leicester area committee of the National Union of Manufacturers unanimously passed a resolution at i's annual meeting on September 17, urging the Government, through the executive council of the National

Union, to "amend section 3 of the Truck Act, 1831, which makes it illegal for employers of labour to make payment to their employees other than in the coin of this realm. The amendment should be such as to enable employers who wish to do so, to make payment by cheque, thereby making it unnecessary for firms' cashiers to draw and travel through the streets with large sums of money, thus obviating wage snatches and robberies."

History of Pharmacy

AUGUST NEWS-LETTER ISSUED

THE August issue of the news letter circulated to branch secretaries by the History of Pharmacy Committee of the Pharmaceutical Society asks for information about schools of pharmacy that are no longer in existence. Particulars are required about the staff, number of s udents, and the type of courses offered. The loan of group photographs and lecture notebooks is also requested. It is stated that a number of specimens of apothecaries' token coinage have been acquired by the Society's museum. Dr. J. M. Rowson (curator of the Society's museum) has collected 520 different specimens of old proprietary medicines. Additional specimens are still welcome. It is noted that Mr. W. T. Pierce (correspondent of the Swansea Branch) has submitted a report with photostat copies of the medical docu-ments in the "Mackworth Papers." Three of the earliest prescription books kept in the business of Anderson & Virgo, Worcester, have been lent to the Committee by the present owner of the pharmacy, Mr. D. T. Jones, Mr. R. Deck, Cambridge, has lent the Committee a quantity of historical records on his family in Cambridge, who have cwned pharmacies in the town since

1804. The complete records for the period 1760–1780 of the business of W. Hooper & Co., Letchworth, Herts, have been lent to the Committee by



CARNIVAL FAN-TASY: An exhibit by Ciba Laboratories, Ltd., in a local carnival at Horsham, Sussex, showed hospital patients being conveyed to and from an operating table by roller conveyer, with an automatic tablet dispenser and injection device en route.

the present owners of the business, Messrs, G. Morgan & F. C. Gilpin, Mr. L. S. Selle (correspondent of the Hull Branch) has submitted an extensive collection of notes that he has made on the history of pharmacy in Hull.

Civil Defence Week

TO START ON SEPTEMBER 30

A "CIVIL Defence Week" is being launched by the Home Secretary (Major G. Lloyd George) on September 30. Local traders prepared to cooperate are being issued with a new bill, in bright colours, announcing "Civil Defence Week," for use in shop windows, on doors, vans, etc. Reprints of the 1955 window bill "Our Survival Might Depend on Civil Defence-Join Now!" will also be available.

Catholic Guild

SILVER JUBILEE IN 1957

THE Catholic Pharmaceutical Guild is celebrating its silver jubilee in 1957. A fund has been started to provide chalices for the foreign missions. Subscribers to the fund should write to Mr. John Loughlin, 1191 Dumbarton Road, Glasgow, W.4. There are branches of the Guild in London, Birmingham, Leeds-Bradford, Manchester, St. Helen's, Liverpool, Edinburgh and Glasgow.

Trophies for Cricketers

MANUFACTURER'S AWARDS OF CUPS

FOR the third successive year County Laboratories, Ltd., Honeypot Lane, Stanmore, Middlesex, have awarded Brylcreem cups and cheques for £105 each for the best cricketing performances of the year. This year's winners were:—Batting (fastest century): A. C. Walton, Oxford University (61 min. at Oxford on June 12); bowling: J. C.



A CUP-WINNER: Jim Laker, Surrey and England bowler, photographed at the reception given in London by County Laboratories, Ltd., to the 1956 winners of the Brylereem "County" cricket-cup awards.

Laker, Surrey and England (ten wickets for 53 and nine for 37 against Australia, July 26-31); fielding: C. A. Milton, Gloucestershire (sixty catches); wicket-keeping: J. T. Murray, Middlesex (fourteen stumped, sixty-three caught); outstanding performance not otherwise covered: Surrey and their captain Stuart Surridge (five consecutive county championships). The presentations were made by Mr. Peter May on September

IRISH NEWS

Ulster Chemists

MEETING OF EXECUTIVE

AFTER two months' vacation the executive committee of the Ulster Chemists' Association held a meeting in Belfast on September 11, Mr. W. S. Hall (president) in the chair. It was agreed to keep close liaison with the National Pharmaceutical Union and Proprietary Articles Trade Association on the Restrictive Trades Practices Act, and the question of profit margins. The basic annual subscription to the Association was fixed for the coming year at £3 3s. for members, £2 2s. for branch shops and £1 11s. 6d. for registered druggists (unchanged from the present year). The SECRETARY reported that one of the members due to retire on September 30, Mr. P. R. Shinner, had intimated that for health reasons he did not wish to seek re-election. General regret was expressed, which the secretary was asked to convey to Mr. Shinner and also an appreciation of all that he had done on behalf of the Association during the many years—more than a quarter of a century-he had been a member of the committee, and also, when he was president for two successive years (1942–43). The secretary also reported that a Chemists Federation local action committee had been formed by the East Down Chemists' Association, to consist of the elected officers of the Association plus a Chemists Federa-tion representative from each town in East Down. The following were elected to membership: James Lord, Ltd., 502 Antrim Road, Belfast (successors to S. Hutchinson, Ltd.); and a number of employees, whose applications had been approved by the Associates' committee, were elected to act in conjunction with the Local Pharmaceutical Committee in revising the Belfast rota. Committee in revising the Belfast rota. Other members of the committee present were Miss C. B., Abernethy, Messrs, J. C., Acheson, H. S. Anderson, N. A. J. Anderson, J. A. Brown, J. Caldwell, H. G. Campbell, H. W. Gamble, O.B.E., C. L. Gordon-Rattle, W. L. McDonnell, J. McGregor, R. A. McEwen, M. C. Mooney, W. J. Rankin, A. Steede, and A. Templeton, J.P. Apologies for absence were received from Messrs, W. H. Boyd, R. Gibson, O.B.E., and P. R. W. Shinner.

Ulster Associates

SEPTEMBER MEETING OF COMMITTEE

AT the September meeting of the committee of the Associates' Section, Ulster Chemists' Association, Mr. J. Morley (chairman) presiding, the following were approved for associateship: Pharmaceutical Chemist, Mr. Peter J. Mulgrew; Assistants, Miss J. F. Waddell and Mr. Norman Gilliland; Apprentices, Messrs. N. A. Smyth and M. D. McCann. A draft balance sheet and annual report were approved and preliminary arrangements made for the annual meeting of associates to be held on November 8. The Council of the Pharmaceutical Society of Northern Ireland is being asked for the use of the Society's main hall for the meeting. It was agreed that the applications for the annual subscriptions should be posted to reach associates on October 1. On the proposal of MR. S. WRIGHT, seconded by Mr. R. TRIMBLE, it was agreed that a recruiting drive should be organised as soon as possible, the details to be arranged at the October meeting. THE CHAIRMAN reported that the following members are due to retire from the Associates' committee on September 30: Messrs. W. E. Cooper, T. Hunter, J. E. Morley, T. McClure (pharmaceutical chemist representatives) and Messrs. E. Baird. R. E. Holliday and S. Wright (student representatives). Nominations should be received before September 20.

Also present at the meeting wcre:—Messrs, T. Hunter (honorary secretary), J. Kerr, R. E. Holliday, E. G. Mackle, and W. Mitchell, Apologies for absence were received from Messrs, W. E. Cooper and R. J. White,

Health Bodies

NORTHERN IRELAND APPRENTICES

CHANGES in the composition of the Northern Ireland General Health Services Board and the Hospitals Authority are announced. The pharmaceutical members of the Health Services Board from October 1 are: Messrs. W. H. Boyd (a former president of the Pharmaceutical Society of Northern Ireland), H. G. Campbell, and Robert Gibson, O.B.E. Mr. H. W. Gamble, who has been a pharmaceutical member since the Board was set up, retires. Mr. C. Young (senior lecturer, pharmacy de-partment of Belfast College of Technology) has retired from the membership of the Hospitals Authority, and Mr. A. Templeton, J.P. (chairman, Nor-thern Ireland Local Pharmaceutical Committee) has been appointed a member of the Authority from October 1.

Election Contest

EIGHTEEN CANDIDATES

EIGHTEEN members are contesting the election for the Council of the Pharmaceutical Society of Northern Pharmaceutical Society of Northern Ireland on which ten seats are vacant. The four retiring members, Messrs. S. E. Campbell (president of the Society), H. F. Moore, C. E. Moss and H. J. Cousley, are seeking re-election. The other candidates are: Messrs. J. A. Brown; J. Caldwell; H. G. Campbell; J. E. Deehan; B. J. Deeny; R. Gibson; W. S. Hall; J. Kerr; G. M. MacManus: E. G. Mackle; M. C. Mooney; F. J. Sweeney; A. Templeton; and W. J. Thornton. One registered druggist, Mr. J. Irwin, is retiring, but has offered him-J. Irwin, is retiring, but has offered himself for re-election. Voting papers must be returned by noon on October 1.

Council Election

TWELVE NOMINATIONS

TWELVE nominations have been put forward for the seven vacancies on the Council of the Pharmaceutical Society of Ireland. The seven outgoing memof Ireland. The seven outgoing members of the Council all of whom are going forward for re-election are Messrs. D. J. Kennelly, Peter Fullam. P. F. McGrath, Gerald O'Neill, N. A. McKane, Maurice Power, and C. D. O'Shea. New candidates are Alderman Louis Cashman, Dublin, Miss Laura Cunniffe, Galway, Mrs. M. M. Halpenny, and Messrs. Michael Moore, Dublin, and Robert Semple, Dublin. Miss Cunniffe has been nominated by Miss Cunniffe has been nominated by the Galway City and County Chemists' Association.

OVERSEAS NEWS

UNITED STATES

Patents Acquired

ALL patents and patents pending relating to the coating of tablets by compression and to the design of machinery for it, owned by the Sharp & Dohme division of Merck & Co.. Inc., Rahway, New Jersey, have been purchased by F. J. Stokes Corporation, Philadelphia, Pennsylvania.

Sharing Vaccine Supplies

ENOUGH Salk-type poliomyelitis vaccinc to provide 500,000 people with two injections is being provided by the United States for commercial export during the rest of 1956 in a plan to share the vaccine with countries in most urgent need of it. In order to ensure an equitable distribution of the quota priority is being given to countries having a known high incidence of poliomyelitis or suffering severe current epidemics.

NEW ZEALAND

University Pharmacy Course

A UNIVERSITY course in pharmacy has been approved by the senate of the University of New Zealand. The senate is inviting the University of Otago to submit proposals for the course.

Advertising to Curb Drug Bill

A CAMPAIGN has been launched in New Zealand to reduce the cost of medicines under the social security pharmaceutical benefits scheme. As part of the campaign the Health Department has started to advertise in the daily Press. In one advertisement the Department has disclosed that £4,064,000 was paid for 10,750,000 prescriptions in 1955. "Our drug bill must be cut," stated the advertisement, which offered suggestions which should lead to better health and so avoid recourse to medicines. The recommendations included exercise and regular hours instead of sleeping pills; a balanced diet instead of vitamin pills; pasteurised milk instead of calcium tablets; immunisation, regular habits, sunshine, fresh air, and bodily cleanliness.

NEWS IN BRIEF

Fire at Genatosan, Ltd., Loughborough, Leics, on September 11, severely damaged a store room and large quantities of stationery and packing materials.

A GLASS doorway, display cabinets and part of a plate-glass window of the pharmacy of Bell and Jones, in West Bromwich, Staffs, were badly damaged late on September 2, when a motor coach crashed into them after a collision with a car.

INCREASES in freight rates between Europe and countries east of Suez are being considered by the world shipping industry. Meanwhile certain lines have already put into effect a 15 per cent. surcharge on freight between Europe and the Far East, with the exception of India and Pakistan. Higher insurance rates have also been announced by the London underwriters.

TOPICAL REFLECTIONS

By Xrayser

Professional Conduct

In his paper to the Professional Session of the British Pharmaceutical Conference at Dublin, Mr. F. W. Adams quoted from an address he gave five years ago at Harrogate. On that occasion Mr. Adams said that he could see no difference in principle between dispensed medicines and those sold over the counter, in that the pharmacist's skill, judgment and integrity were involved in both. It is in this matter, of course, that the pharmacist differs from the person who merely sells drugs as a sideline, and an enlightened society may eventually realise that the sale of all drugs should be carried out exclusively by those who possess the requisite skill and judgment by virtue of their training and examination. In the last requirement of integrity there may be divergence of opinion, and in this connection integrity means more than mere commercial honesty, as the speaker made clear. If pharmacy is to rise to the heights it deserves, it is necessary that it should set itself standards of professional integrity, seeking every opportunity to prove, by its self-imposed discipline, its undoubted claim to recognition as the only source through which supplies of drugs may be obtained with proper safeguards to the user. That carries with it the responsibility in certain circumstances of refusal to supply, and it is here that standards must be achieved by a code of behaviour. In view of the broad cross-section of opinion represented on the register, the need for standards that are fully accepted is obvious.

Discussion

Discussion of a paper covering so much ground tends to be desultory, particularly when time is limited. Two of the observations indicate the difficulties in finding agreement in such an inexact science as ethics. One of the speakers thought that the Pharmaceutical Society tended to deny to its members the exercise of professional responsibility. In his opinion pharmacists should have the privilege of discussing with the patient whether or not he should have tranquillisers. He would prefer that to the prospect of seeing the drugs in Schedule 4. It seems to me that the responsibility of diagnosis should not be in the province either of the pharmacist or of the patient—if we are to regard a customer in such a transaction in the light of a "patient" of the pharmacist. Another speaker referred to the Society's inspector as an agent provocateur in going to chemists in an effort to buy methyl pentynol. In answer to the point raised, the registrar said (p. 295) that the description depended on the point of view, and that he supposed that anyone who went into a shop and made a test purchase could be so regarded. I should be extremely disturbed to find that an inspector acted as an agent provocateur, which surely means that dubious means are resorted toperhaps after an initial refusal to supply-in order to induce a reluctant pharmacist to make a sale. There can be no objection to an inspector or his agent making a straightforward request and accepting a straightforward refusal, and it surprised me that Mr. Adams left the matter where

Sauce for the Goose

I am all in favour of any skilled work, necessitating the use of people specially trained, being carried out by those who have undergone the requisite training. It is a view that is widely held, and nowhere more strongly than within the trade-union movement, where the rights of different trades are jealously safeguarded. It may cause irritation to the unthinking that disputes should arise between artisans of different trades. Certain incidents may look absurd to the onlooker, but rights won after a hard struggle should not be lightly disregarded. The principle should commend itself to the member of the Oxford trades council who, because of the lack of a chemist contractor at Marston, suggested (p. 267) that an acute shortage of pharmacists might justify an investigation of the Pharmaceutical Society by the Monopolies Commission!

COMPANY NEWS

Previous year's figures in parentheses

BUTLER & CRISPE, LTD. — Mr. H. E. James has been appointed joint managing director of the company.

SANGERS, LTD. — Group trading profit for year ended February 29, was £541,457 (£479,037) and with sundry income including a capital profit of £15.000 (nil) from a subsidiary, the balance is raised to £568,394 (£490,452). Depreciation allowance is £26,881 (£27,107); interest, £19,918 (£15,531); directors' remuneration and audit, £67,474 (£53,906), ctc., leaving net profit at £454,121 subject to tax of £238,023 (£217,739). Ordinary dividend, 27½ per cent. (same).

EVANS MEDICAL SUPPLIES, LTD. — The following staff changes are announced: Mr. G. A. Wilson, B.A. (formerly general manager), has been appointed managing director of Evans Medical (Wales), Ltd.; Mr. G. T. Randal Davies, M.P.S. (overseas marketing manager), has also been appointed a director of E.S.L. & W. (South Africa) (Pty.), Ltd.; Mr. T. J. Garner (export sales manager) has also been appointed a director of Evans Medical Supplies (India) Private, Ltd.; and Mr. A. E. Smeeton (manager overseas administration department) has also been appointed a director of Evans Medical (Nigeria), Ltd.

DISTILLERS CO., LTD. — At the annual meeting on September 14 the chairman (Sir Henry J. Ross) refused to say what proportion of the group's profits had been earned by the various enterprises in different industries on which the group has embarked in re-cent years. "The operations of the group should be taken as a whole," he cent years. said. Answering suggestions that some of the ventures in the chemical and plastics industries may not have been successful, the chairman argued in general terms that diversification had been fully justified by results. The spread of earning power would be a safeguard in adverse economic conditions, "In normal circumstances," he continued, "these industrial activities should make an increasingly valuable contribution to the group's earnings." He went on to explain that the chemical and plastics industries were rapidly expanding and changing, so that large amounts of capital had to be invested. This had been financed mainly by proughing fits earned in those enterprises. "In the main" the industrial business had profitable. The financed mainly by ploughing back proyield on the capital employed as a whole compared favourably with that of other similar organisations.

NEW COMPANIES C. = Private Company: R.O. = Registered Office

P.C. = Private Company; R.O. = Registered Office

BROME & SCHIMMER, LTD. (P.C.). — Capital £25,000. To carry on the business of manufacturers, producers, importers and exporters of and dealers in botanical drugs, e'c. Directors: Albert E. Brome, Robert C. Schimmer, Finchcotts, Edenbridge, Kent (directors, Sparkes, White & Co. (1948), Ltd.), and Alice R. Schimmer. R.O.: 7 Leather Market, London, S.E.1.

DAVID WARREN & COMPANY, LTD. (P.C.).—Capital £500. To carry on the business of wholesale or retail chemists, etc. Directors: Rex A. Rawstorne, and David J. Warren. R.O.: 110 Pavilion Way, Eastcote, Ruislip, Middlesex.

ALLEN HOWARTH, LTD. (P.C.).—Capital £2,000. To carry on the business of wholesale or retail chemists, e.c. Directors: Allen Howarth, M.P.S., and Dorothy Howarth. R.O.: 8 Albert Parade, Eastbourne.

BUSINESS CHANGES

BATTELLE INSTITUTE, LTD., have removed to 24 Ryder Street, London, S.W.1 (telephone: 1 raralgar 1621).

KENWOOD LABORATORIES, LTD., have removed to Bush Lane House, Bush Lane, Cannon Street, London, E.C.4 (telephone: London Wall 6351).

TIMOTHY WHITES & TAYLORS. LTD., closed their branch at 522 London Road, North Cheam, Surrey, on September 15. The business has been transferred to 19 The Broadway. Cheam.

G. D. SEARLE & CO., LTD., have opened manufacturing laboratories at Lane End Road, High Wycombe, Bucks. (telephone: High Wycombe 1770). The offices are also being moved to the High Wycombe address, to which all communications should be sent from October 1.

THE pharmaceutical, cosmetic and perfumery business formerly carried on by Milton Thomas, Ltd., 127 St. James's Street, Burnley, has been transferred to Hartleys Chemists, Ltd., 59 St. James's Street. The premises at 127 St. James's Street, continue under Milton Thomas, Ltd., as a photographic business only.

Appointments

ETHICON. LTD., Edinburgh, have appointed Mr. J. F. Fox (export manager) their general sales manager. He is to undertake a two-month tour of the Middle East.

A. G. HERSOM, 119 Richmond Road, Kingston-on-Thames, have appointed Mr. P. C. O'Connell their representative in the West of England, Wales, Northern Ireland and Eire. It is also anticipated that he will be taking over the Midlands area in the near future.

MARRIAGES

COOPER—THOMPSON.—At Fort-william Gospel hall, Belfast, on September 15, William E. Cooper, M.P.S.N.I., 30 Clara Park, Belfast, to Kathleen R. J. Thompson, Parkmount Parade, Belfast.

WILKINSON—COOMBS. — At the Congregational Church, Four Lanes End, Blackburn, Lancs, on September 8, Peter Wilkinson, Colenso Road, Blackburn, to Jacqueline Coombs, M.P.S., Pleckgate Road, Blackburn.

AUSTIN — BARRETT. — At St. Columbkille's Church, Rutherglen, Glasgow, on September 8, Bernard J. Austin, M.P.S., 3 Jevington Way, Lee, London, S.E.12, to Dr. Aileen V. Barrett, Rutherglen.

FOWLER—JENNINGS. — At St. John's Church, Peterborough, Northants, on September 13, John William Fowler (managing director, Sturton & Sons, Ltd., Peterborough), to Frances E. Jennings, Peterborough.

DEATHS

BOWKER. — On August 6, Mr. John Taylor Bowker, F.P.S., 41 Black-pool Road, Lytham St. Annes, Lancs. Mr. Bowker qualified as a chemist and druggist in 1893 and passed the Pharmaceutical Chemist examination in 1894.

COLLINGWOOD. — In hospital on September 12, Mr. Robert Collingwood, Rochdale, aged ninety. Mr. Collingwood qualified as a chemist and druggist in 1890.

FALCONER. — Recently, Miss Jeannie Wardrop Falconer, M.P.S., 88 Old Bethnal Green Road, London, E.2. Miss Falconer qualified in 1925.

GIBSON. — At his home, 209 High Road, Broxbourne, Herts, on August 29, Mr. Walter James Gibson, B.Sc., F.P.S. Mr. Gibson passed the Pharmaceutical Chemist examination in 1949. He was a lecturer in the department of pharmacognosy, School of Pharmacy, University of London.

HITCHEN. — On August 21, Mr. Clement Farnell Hitchen, M.P.S., The Oaks, Station Road, Henfield, Sussex, aged seventy-eight.

MANSON. — On August 22, Mr. John Manson, F.P.S., 21 Pennard Mansions, London, W.12. Mr. Manson studied at Duncan's School of Pharmacy, Edinburgh. After qualifying as a chemist and druggist in 1909 and passing the Pharmaceutical Chemist examination in 1911, he taught at the Chelsea Polytechnic, London, S.W.3, and in 1915 he joined the staff of the surgical department of John Bell & Croyden, London, W.1. Later he became manager of the surgical department of Squire & Sons, Ltd., London, W.1, and, after the death of Mr. W. S. Boyack, he was appointed manager. When Messrs, Squire closed in 1948, Mr. Manson went to the information department of the National Pharmaceutical Union, where he remained until he retired in 1955. He is survived by his widow and a brother, Mr. A. J. McKay Manson, M.P.S., who is the owner of a pharmacy in Mundesley, Norfolk.

MORLING. — On August 23, Mr. Edgar Harold Morling, M.P.S., 5 Ranelagh Gardens, Ilford, Essex, aged sixty.

MOSS. — At Bovey Tracey Hospital, Newton Abbot, Devon, on August 31, Mr. Arthur Moss, M.P.S., c/o Barclays Bank, Ltd., Herne Road, West Worthing, Sussex, aged eighty-one, Mr. Moss served his apprenticeship with James Woolley, Sons & Co., Ltd., Manchester. After qualifying in 1899 he was in business at Sale, Ches, before moving to Eastbourne, where he founded the business of Arthur Moss, Ltd. Since retiring in 1940 Mr. Moss had lived in Worthing and Torquay. His son is Mr. Ronald H. Moss, M.P.S., London.

PERSONALITIES

MR. H. G. MOSS, M.P.S. (a member, National Pharmaceutical Union Executive and a vice-president, Proprietary Articles Trade Association) attended the fifty-first convention of the National Association of Retail Druggists in Cincinnati, Ohio, to speak on "Pharmacy and Fair Trade in Great Britain" on September 21.

MR. H. L. SHAPIRO, M.P.S. (managing director, James Tompkins, Ltd., London, E.C.I), has been appointed to the staff of the United Nations' Children's Fund in New Delhi, as medical supply officer to the Asian regional office. Prior to his taking over the management of Messrs. James Tompkins some two and a half years ago, Mr. Shapiro was medical supply officer to the American Joint Distribution Committee in Paris and acted as consultant on medical supplies to the headquarters of the United Nations Children's Fund for a period in 1950.

MR. STANLEY W. KNOTT (chairman of the Scott & Bowne group of

companies) completed fifty years of service with the parent company this month. Educated at Berkhamsted, Herts, Mr. Knott went straight into the company's head office in London in 1906, and later commenced a period of service in continental



branches, first in Frankfurt and then as manager in Vienna. In 1913 he went to Australia and took over the management of the subsidiary company Scott & Bowne (Australasia), Ltd., which he built up over a period of eighteen years to a position of undisputed leadership in the proprietary medicine field in that country, achieving sales records in a competitive market that were quite outstanding. Mr. Knott was recalled to London in 1930 to become general manager and rapidly managing director of the parent company, which he piloted successfully through the trying times of the early thirties and the even more difficult period of the 1939-45 war and indeed the post-war years. He initiated and developed the agency side of the business, which has made Scott & Bowne, Ltd., one of the leading distributors in the proprietary, toilet and cosmetic fields. In 1955 he passed on the heavy executive duties of managing director, but the group still enjoys the full benefit of his experience and shrewd judgment in his capacity as chairman of the board of Scott & Bowne, Ltd. Mr. Knott is a popular and active member of the council of the Proprietary Association of Great Britain, Recently he was entertained to dinner by his colleagues and presented by the principal shareholders, his fellow directors and the company with various mementoes to mark his halfcentury of service.

"FAMILY DOCTOR" BOOKLETS

Distribution through pharmacies

ON sale only in pharmacies, a series of booklets on health topics produced by the British Medical Association's monthly Family Doctor, covers in its first eight titles such matters of popular interest and concern as "Having a Baby," "All About Asthma," "Slim Safely" and "How Your Life Began."

Family Doctor was started by the B.M.A. in April 1951 as a magazine for health education of the public. When readers began to ask for reprints of its articles the demand was first met by producing cheap reprints from existing type. The next step was to reprint them cheaply as pamphlets priced at one penny, twopence, threepence, sixpence, etc., simply to provide a service that was financially self-supporting. Each year the volume of material dealt with has increased steadily and has presented problems in handling and distribution. It was therefore decided recently to create a special series of Family Doctor booklets to cover fields in which there appeared to be the greatest demand for accurate and

authoritative information. Each has thirty-two pages and cover, and is priced at 1s. The named authors are authorities in their special fields, and the facts and opinions included are those that would be generally accepted by a majority of the medical profession. It was felt at an early stage that the right way to distribute the booklets would be through chemists' shops, since it is to the chemist that individuals go first for much general advice about their health. Already the booklets are being displayed and sold at over 1,500 pharmacies, and the response has been remarkable.

The minimum opening order is one doz, copies of each eight titles. The booklets are charged out to stockists at retail price, as already given, less 33\frac{1}{3} per cent. With each opening order is provided free a metal "dispenser" for display purposes and stock. In reordering, the chemist may choose any titles according to local demand. The minimum quantity for re-ordering is three doz. All deliveries are post paid.

TRADE NOTES

Additional Size. — Knox Laboratories, Ltd., 46 Hertford Street, London, W.1, have added to their Nixoderm skin-ointment range a new trial size.

An Entry Corrected.—The height of the Dandy Duck novelty clothes brush made by Hughes Brushes, Ltd., Slough, Bucks, is 12 in., and not as stated in the company's announcement in this issue.

Target Doubled. — The Meet guide-dogs-for-the-blind scheme operated by Petfoods, Ltd., Melton Mowbray (see C. & D., August 4, p. 113), has received such support from the public and from retailers that the original target of £10,000 has been raised to £20,000. It is hoped to achieve that target by the end of November.

Now Packed for Display. — J. C. Ingram & Son, Ltd., Hackney Wick, London, E.9, are now marketing teats



and soothers in hygienic envelopes, mounted on cards for display and sale.

Correction to Mailing Announcement. — Rexall Drug Co., Ltd., Loughborough, Leics, state that the retail price of Gee's linctus pastilles in Great Britain is 1s. 3d. and not as printed in a mailing announcement recently sent out by the company to chemists.

Price Stabilisation Extended. — Johnson, Matthey & Co., Ltd., bullion refiners and dealers, 73 Hatton Garden, London, E.C.1, have notified their customers that they have decided to continue their present policy of stabilising charges for refining and manufacturing. They state that, while it would be unwise and impossible to freeze prices indefinitely, the utmost restraint is being exercised on prices charged for manufacturing and refining operations.

Reciprocal Agreement. — A marketing and research agreement that is expected to make a substantial contribution to the dollar export of the British pharmaceutical industry is announced by the managing director of Benger Laboratories, Ltd., Holmes Chapel. Ches. The agreement is with Lakeside Laboratories, Inc., Milwaukee, U.S.A., and under it both companies are making available to each other new products and research data. The first result of the agreement is that Bengers' iron injection speciality, Imferon, for the treatment of anaemia, becomes available for use on prescription throughout the United States.

New London Showrooms.—Electrin House, a newly constructed building in New Cavendish Street, London, W.I, now houses the West-end showrooms of the Pullin group of companies, which includes the Pullin Optical Co., Ltd. (suppliers of photographic apparatus and accessories) and Stanley Cox, Ltd. (medical and physiotherapy equipment). The two subsidiary companies have their stores, packing department and sales counter in the basement of the building. A dark-room has been provided to facilitate the servicing of loaded cameras, The 1,500 sq. ft. showroom on the ground floor displays the products of the Pullin group, and makes provision for lectures, demonstrations and film shows.

Exempted from Tax.—Solport Bros., Ltd., 44 Spencer Street, London, E.C.1, announce that the Customs and Excise authorities are allowing the following items previously subject to purchase tax to be sold tax-free:-Portia baby weigher and hammock (irrespective of whether sold individually or as an outfit comprising both items); india-rubber finger-stalls and finger-cots (if not of a kind associated with articles of stationery, and if intended for use as protectives for wounds or dressings). Under specified conditions, caustic pencils are regarded as exempt from tax, and Messrs. Solport hope shortly to be marketing a tax-free caustic. No success was encountered in applications for favourable revisions of the tax liability of eye baths, suspensory bandages, body belts, chest protectors and styptic pencils.

Christmas Goods

ITEMS notified too late for inclusion in the illustrated review of Christmas merchandise available to chemists (pp. 325-32) include the following:-

"French Moss" Coffrets. — Among many coffrets and special packs offered by J. C. & J. Field, Ltd., Church Street, Amersham, Bucks, for the Christmas season, the company's French Moss products are featured.

Travel Packs for Men.-Introduced to coincide with the Christmas sales season, Prince Gourielli travel kits in simulated pigskin, each contain a choice of three preparations. distributors are Helena Rubinstein. Ltd., 3 Grafton Street, London, W.1.

Brushes for Christmas. — The Halex division of British Xylonite Co., Ltd., Highams Park, London, E.4, are making available for the Christmas season many of their popular hairbrush sets as well as individuallypacked brushes.

Bonus Offers

BENGUE & Co., LTD., Mount Pleasant, Alperton, Wembley, Middlesex. Pulmo Bailly. Twelve bottles for 31s. (instead of 34s.). Until October 20 only.

REXALL DRUG Co., LTD., Lough-borough, Leics, Plenamins, Three 5s. size free with three doz, ordered. Similar terms available on several other Rexall specialities. Until Octo-

IRISH MOSS MANUFACTURING Co., LTD., 421 Antrim Road, Belfast. Miss Loughrey's syrup of Irish moss. 1-doz. and 2-doz. lots, thirteen to doz. 3-doz. lots and over, fourteen to doz. Until October 31.

NEW PRODUCTS AND PACKS

Long-acting Analgesic. — The Crookes Laboratorics, Ltd., Park Royal, London, N.W.10, have launched a new long-acting analgesic, Proladone (dihydrohydroxygodeing) (dihydrohydroxycodeinone pectinate), for the control of post-operative pain. Proladone, which is given by intra-muscular injection, is marketed in boxes of six 1-mil ampoules. It is an S.I. poison, and is subject to the D.D.A. regulations.

Piglet Anaemia Cure. — Benger Laboratories, Ltd., Holmes Chapel, Ches, announce that Imferon (veterinwhich has undergone a year's trial by veterinary surgeons, is now available for sale to farmers through normal wholesale and retail channels. The makers claim that Imferon (veterinary) prevents or cures piglet anæmia with a single injection. The product is supplied in ten-dose rubbercapped 20-c.c. vial,

New Medicinal Specialities.—Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that the following products are now available in the home market: Ef-Cortelan ointment, No. 1 (non-greasy base), ½ per cent., in 5-gm. tube; Ef-Cortelan ointment No. 2 (greasy base), $\frac{1}{2}$ per cent., in 5-gm. tube; and Ef-Cortelan with neomycin eye ointment (hydrocortisone acetate.

1 per cent., with neomycin sulphate, 0.5 per cent., in soft paraffin base), in 3.5-gm. tube with ophthalmic nozzle. More Potent Intrinsic Factor.— Having produced a much more potent intrinsic factor, the Armour Labora-tories (Armour & Co., Ltd.), Hampden Park, Eastbourne, Sussex, have discontinued issuing Biopar tablets, which are now replaced by Biopar forte tablets. Each Biopar forte tablet contains 35 mgm. of intrinsic factor and 15 microgm. of vitamin B₁₂ (equivalent to one U.S.P. oral unit). It has therefore the therapeutic effect of five Biopar tablets. From September 24 Biopar forte will be supplied against all orders for Biopar.

Hydrocortisone for Intranasal Use.-Menley & James, Ltd., Coldharbour Lane, London, S.E.5, are marketing for Smith, Kline & French Laboratories, Inc., U.S.A., a new speciality, Vasocort

Spraypak, containing hydrocortisone Splaypax, containing hydrocordisched alcohol 0·12 per cent. phenylephrine hydrochloride 0·125 per cent., and Paredrinex (p-hydroxyamphetamine hydrobromide), 0·5 per cent. The spray is indicated in nasal congestion, chronic and allergic rhinitis, and sinusitis. It is claimed to have no systemic side-effects and "virtually no rebound turgescence."

Heavy Metal Intoxications in Stock. -Riker Laboratories, Ltd., Morley Street, Loughborough, Leics, have introduced a special veterinary pack of intravenous solution of the calcium disodium Versenate (sodium calcium-edetate) for the treatment of lead poisoning or other heavy metal intoxications in cattle and sheep. Hitherto ampoules prepared for human administration have been used for the purpose. The pack is a rubber-capped vial of 25 gm. in 100 c.c. The employment of edetic acid and its compounds in metallic intoxication is covered by British Patents Nos. 715848 and 715976.

Glycyrrhetinic Acid Preparations. -New Biosone GA preparations mar-New Biosone GA preparations marketed by Biorex (Marketing), Ltd., 47 Exmouth Street, Rosebery Avenue, London, E.C.1, include Biosone GA snuff in pack of six capsules, each containing 10 mgm, of active isomers of glycyrrhetinic acid; Biosone GA ophthalmic ointment in 5-gm, tube containing 2 per cent of the active isomers. taining 2 per cent, of the active isomers; and 0.5 per cent, neomycin sulphate; and Biosone GA compound supposiand Biosone GA compound supposi-tories, containing active isomers of gly-cyrrhetinic acid, 1·285 per cent.; tita-nium dioxide, 10·29 per cent.; benzo-caine, 2·57 per cent.; dry extract of hamamelis, 10·29 per cent; and ephe-drine, 0·77 per cent. The suppositories are issued in a box of twelve,

A New Anti-tussive. — Under the name Pectamol linctus, The British Drug Houses, Ltd., Graham Street, City Road, London, N.1, are marketing a new speciality, the active constituent of which is the citrate of the diethylaminoethoxyethyl ester of ∝:∝diethylphenylacetic acid (oxeladin). The action of oxeladin is on the central nervous system, and the compound

is claimed effective in suppressing dry, unproductive cough, and in moderating productive cough associated with bronchial conditions. Free from any of the alkaloids of opium or their derivatives, Pectamol is non-toxic and non-habit-forming, and under trial has shown no tendency to cause sideeffects or constination. The linctus. which is pleasantly flavoured, is issued in bottles of 60 and 250 mils and 2 litres. It is not subject to the statutory poisons control.

First Speciality for Men. — Max Factor Hollywood and London (Sales),



Ltd., 16 Old Bond Street, London, W.1, have launched the first of a promised range of toilet preparations for men. Lazy Shave acrosol shaving lather, released by press button, allows just enough creamy foam to flow to the fingers to smooth over the wet face for a perfcct shave. Lazy Shave is concentrated and one container should last for months. Distribution has been organised for a com-

mencing sales date to the public of October 8.

Hair-brush for the "Under-twelves." To meet the need for a hair-brush for the under-twelve group, the Halex division of British Xylonite Co., Ltd., Highams Park, London, E.4, have added to their range a junior-size pneumatic brush, the Kiddibrush, in blue, pink or primrose decorated with a penguin or fawn motif, and with special medium-soft nylon filling. The pack has transparent windows displaying both sides of the brush.

Four-shampoo Pack. - Lincoln Hair Products, Ltd., Shaftesbury Mews, Kensington, London, W.8, now offer a four-shampoo "barrel" pack of their Linc-o-Lin beer shampoo.

PHARMACEUTICAL SOCIETY OF IRELAND

Monthly meeting of Council

At the monthly meeting of the Council of the Pharmaceutical Society of Ireland held in Dublin on September 11, Mr. P. F. McGrath (president) was in the chair. Also present were Messrs, M. Power (vice-president), H. P. Corrigan (treasurer), G. C. O'Neill, J. Gleeson, C. J. Cremen, F. J. Robinson, J. P. Kissane, D. J. Kennelly, V. McElwee, F. Loughman and T. B. O'Sullivan. Mr. James G. Coleman, B.L. (registrar) was in attendance.

THE PRESIDENT said that, since the previous meeting of the Council, their old friend Mr. Cecil Scott had passed away (see C. & D., July 28, p. 87). He was a man who had well earned all the honours that pharmacy could have given him. He was not only a great man on the Council, but also a man who gave unstinted service to the Irish Drug Association. He was one of the kindest gentlemen and the greatest of friends. He (Mr. McGrath) was expressing the sentiments of the whole Council when he said that, in the death of Cecil Scott, they had all lost a really true and great friend. Members of Council then rose in tribute to Mr. Scott.

Apologies for inability to attend were received from Messrs. J. J. O'Regan, Cork, A. A. Toher, Sligo, and M. Costello, Dublin. Mr. O'Regan, referring in his letter to the absence of Cork pharmacists from the British Pharmaceutical Conference and Council meetings, mentioned that Cork people had been requested by the health authorities to keep away from all functions in view of the outbreak of poliomyelitis in the city. The President said that members of Council had the greatest sympathy with their Cork colleagues. They all looked forward to welcoming the Cork representatives back to the Council in the very near future.

Mrs. Louisa Prior (née Thompson), L.P.S.I., who submitted a marriage certificate, was granted change of name in the Register. Drs. John Francis McGuire, Listowel, co. Kerry, Mary Helena Power, Galway, and Annie Theresa Whelan, Athenry, all of whom submitted L.A.H. Certificates were granted registration as pharmaceutical chemists.

The following changes of address were notified:—Miss Nora O'Shea, L.P.S.I., to Lia Fail, Boreenmanna Road, Cork; Miss Miriam E. Hanna, L.P.S.I., to 23 Southfield Road, Westbury-on-Trym, Bristol, England; Mrs. Agnes Scallan, L.P.S.I., to c/o Federal Public Works Department, Racecourse Road, Lagos, Nigeria, B.W.A.; Mrs. Louisa Prior, L.P.S.I., to 74 Howth Road, Clontarf, Dublin; Miss Paula M. Walsh, M.P.S.I., to 275 North Circular Road, Phibsborough, Dublin; Messrs, Daniel Hegarty, M.P.S.I., to Rathdowney, Leix; Christopher Morrissey, L.P.S.I., to 25 Weirpark, Lower Dodder Road, Terenure, Dublin; Garrett P. Ryall, M.P.S.I., to 10 Lower Kilmacud Road, Stillorgan, co. Dublin; Patrick J. Mullany, L.P.S.I., to Main Street, Portarlington, Leix; Patrick Joseph Bonfield, L.P.S.I., to 5 St. Gall's Gardens, Milltown, Dublin; Bernard J. Anderson, L.P.S.I., to 25 Dollymount Grove, Clontarf, Dublin; Jeremiah J. Dawson, L.P.S.I., to 4A Ashdale Road, Terenure, Dublin; Sean Brian O'Brien, M.P.S.I., to Fortfield Park, Terenure, Dublin; Sheamus A. O'Suilleabhan, to Carrigtwohill, co. Cork.

Reciprocity with South Africa?

From the Registrar of the Pharmacy Board of South Africa the following letter was received:

"It is possible that my Board may in the near future suggest to your Society that an agreement be entered into by which our respective examination certificates shall be recognised for registration purposes. Will you please be good enough to send to me full particulars of the course of study required and the conditions of apprenticeship. I have a copy of your Calendar for this year from which I see that you have pharmaceutical chemists, dispensing chemists and druggists, registered druggists, associate druggists, and assistants to pharmaceutical chemists. Will you please explain those various categories to me? In this country my Board is the Statutory Body which conducts the chemists and druggists, examinations, registers chemists and druggists and apprentices, and exercises disciplinary powers over registered per-

sons. The Pharmaceuitcal Society is a voluntary body that has no official status and is concerned with the business side of the calling. This letter must not be considered as an official invitation to enter into a reciprocal agreement. I simply ask information to put before my body when it considers the possibility of approaching your Society on the subject of reciprocity."

THE PRESIDENT commented that it was good to receive a letter of that kind at a time when some of their licentiates in Central Africa had difficulties regarding recognition. It was agreed to supply all the information sought by the South African Board.

Irish Members' Problem in Rhodesia

A letter was read from Mr. F. G. Burke, on behalf of a firm of lawyers in Ndola, Northern Rhodesia, concerning the status of Irish pharmaceutical licentiates in the Federation of Rhodesia and Nyasaland. Mr. Burke forwarded copies of letters which had been sent to the Federation Minister for Health, and to Mr. Liam Cosgrave (Minister for External Affairs in Dublin) on the matter. The representations, it was set out, were made on behalf of six licentiates of the Pharmaceutical Society of Ireland who were practising in Northern Rhodesia. Prior to 1952, it was pointed out, chemists who qualified in Ireland could come into Rhodesia and their qualification was automatically recognised. After 1952 "for reasons somewhat obscure" it was decided that no further registrations would be accepted "from chemists who qualified in Eire." No protest was apparently made at the time although there was no reason to believe that the qualifications of chemists from Eire were in any way inferior to those chemists from, say, the United Kingdom. The situation had now come to a head because it was proposed to amalgamate the respective bodies governing pharmaceutical chemists in Northern and Southern Rhodesia, consequent upon the Federation of those two States, Southern Rhodesians were apparently making it a condition of the amalgamation that those chemists whose qualifications would not have been previously recognised in Southern Rhodesia would not be permitted to practise there even after the amalgamation. Mr. Burke added: "The only category of chemists whose qualifications would not have been previously recognised in Southern Rhodesia were those from Eire, and that, of course, seems to amount to discrimination.'

Since the matter had been brought to the notice of the Minister for External Affairs it was decided to await a communication from the Minister on the subject, before taking any action.

THE REGISTRAR reported that thirteen applications for preliminary registration had been received but applications could be made for some time yet.

Messrs, T. B. O'Sullivan and J. P. Kissane were appointed scrutineers of the ballot in the event of an election for vacancies on the Council in October.

It was mentioned that Mr. P. A. Brady was excused attendance at the Council that day since he was attending a Health Committee meeting of the Dublin Corporation. The House Committee's report was submitted and approved. The Schools' Committee report, also adopted, stated that fifteen candidates had entered for the pre-registration examination.

A report was submitted by Mr. P. O'Briain (the Society's liaison officer) on recent inspections carried out by him, and on the president's suggestion, it was agreed to go into Mr. O'Briain's reports at a later date with a view to taking action where necessary.

The registrar was instructed to take up with Mr. Shane O'Neill (the pharmacist officer, Department of Health) the question of having Irish ships carry stocks of medicinal supplies similar to those of other ocean-going ships.

A vote of thanks was passed to Mr. S. E. Bjorn (president,

Danish Pharmaceutical Society), for the gift of a finely illustrated book on the history and development of pharmacy.

THE PRESIDENT moved a vote of thanks to the Wellcome Foundation, Ltd., for their gift of a cheque for the establishment of a research laboratory at the College of Pharmacy (see C. & D., August 25, p. 184). Paying tribute to Dr. D. Wheeler and the Wellcome Foundation, Ltd., the president mentioned that a number of pharmaceutical scientists attending the British Pharmaceutical Conference in Dublin had promised to give every possible help to Dr. Timoney and his staff in the research work that they were now undertaking.

Praise for Conference Organisers

For services rendered in connection with the holding of the British Pharmaceutical Conference in Dublin, the Council then by motion expressed thanks to Dr. Michael Tierney (President of University College, Dublin): the management of the Ambassador theatre; the manager and staff of the Gresham hotel; the manager and staff of the Metropole restaurant; Mrs. Lawlor, Naas, co. Kildare, as caterer of the kanquet and ball; C. I. E. (National Transport Organisation) and Bord Failte (Irish Tourist Board).

THE PRESIDENT said that if he was to try to convey to the Council all that had been said to him in praise of how the Dublin Conference had been run it would take hours. Mr. H. G. Rolfe (a secretary of the Conference) asked him specially to convey to the members of Council, and to all those who worked on the various committees, his sincere appreciation of how easy they had made things for him. As chairman of the local committee he (the president) personally took great pride in the team he had picked. While he could not refer by name to every one who assisted he would like to say how much they appreciated the help they got from pharmacy all over. There was one man, however, he must single out for special mention and that was their registrar (Mr. Coleman). All through the month of August he had worked unsparingly from 9 a.m. to midnight, and had done a splendid job. Visitors to the Conference spoke in high praise to him of the efficient organisation, and much of that was due to the able work of Mr. Coleman. He must also pay tribute to Mr. Kennelly, who was looked upon by both the British and Irish delegates as one of the most capable and friendly of local secretaries. Their treasurer (Mr. Corrigan) also deserved a special word of thanks for doing an excellent job. Mr. Costello as the vice-chairman of the local committee was a tower of strength to him, since he had such wide experience of Conferences in the past. It was a particularly happy and pleasant duty for him to express their warmest thanks to the chairmen of the various subcommittees, and in that expression of sincere gratitude from the Council he wished particularly to name Mrs. Costello, as chairman of the ladies' committee; Dr. Dowling, Messrs, Malachy Leonard, Phil McAuliffe, Kevin Banks, J. A. Hurson, Dr. Timoney, and Messrs. Brendan O'Sullivan and Michael F. Walsh. To the great many other people who had given so generously of their time and help during the week, on both the Council's behalf and his own, he wished to say a big "Thank You" (hear, hear).

MR. KENNELLY, associating himself with the president's expression of thanks, said that he, too, felt he must mention the name of the registrar. Were it not for the tremendous work done by him they could not all feel so happy that day. Mr. Coleman did the spade work and evolved systems which proved to be extremely good and successful. At the outset of the Conference the president, as chairman, had said that they must run the work of the local committee on Army style. Duties were assigned to the various chairmen of subcommittees and they had never let the chairman down.

MR. LOUGHMAN said that down in the country they just looked on, and were really the people who should be offering thanks. When Mr. Costello had put forward Mr. McGrath's name for the presidency, he had a full realisation of the magnitude of the undertaking that would fall on the

president's shoulders, and how well those shoulders were able to bear that burden they all realised today. He was sure Mr. Costello was very happy over the choice he made. He (Mr. Loughman) had never known of any conference or function carried through with such success. That close on a thousand people at the banquet in the Hall of University College were so well and so promptly catered for, was in itself a great achievement. No less than five different nations were represented at his own table and everyone had the highest praise for the meal and the service. He was particularly proud also of the Irish people who spoke at the function, and of their own president, who acquitted himself so well. Then the entertainment was particularly we'll chosen, and not only the artists themselves but the contribution they made. The function was one of the biggest ever held in Dublin and he was personally proud to think that it was chemists who ran it so successfully. The trip to Glendalough, in which nine hundred people were taken in thirty buses, was run with all the precision of a perfect army manœuvre. The guides chosen for the buses and the catering throughout were excellent. The president, Mr. Kennelly, the registrar and all associated with them were to be congratulated a thousand times on the wonderful success of their efforts. For pharmacists from the country it was indeed a pleasure to attend the functions they had so well arranged. Even the scientific lectures were most interesting. It was said that a similar Conference would not be held in Dublin for another twenty-five years, but he was sure if the wishes of those who attended last week's Conference were taken into account the time would be very much less. The badge designed for the occasion was particularly fine, and was something he wou'd keep as a prized souvenir.

An Example for the Future

MR. POWER said that as another member of the Council from the country he wished to be associated with what Mr. Loughman had said. During the Conference week he had heard on every side only compliments to all concerned. The Council and all connected with the Irish pharmacy owed a great debt of gratitude to their worthy president for the way in which the arrangements were carried out. It would be an example for any future Conference.

MR. KISSANE said that he was very happy to associate himself with Messrs. Loughman and Power in their words of congratulation. To have had the services of a man like Mr. Coleman was a tremendous help. The floral decorations at the banquet and the Conference badge were items that came in for particular praise. Then the way in which the ball was run could not be surpassed.

MR. O'NEILL said that, without mentioning names, he would like to make special reference to the chairmen of committees, and the lady chairman of the ladies' committee. They were wonderful and without their work the Conference could not have been held.

THE REGISTRAR, thanking the president and other members of the Council for their references to his work, said that he would like to mention the name of a non-pharmacist, Miss Esmonde. Mr. Rolfe had paid a high tribute to the way in which she had looked after the scientific sessions. Mr. Coleman added that he hoped the Dublin Conference would encourage a greater number of Irish pharmacists to attend future meetings of the Conference.

THE PRESIDENT, thanking Councillors for their references to himself, said that he took great pride in the chairmen he had picked. They had made his work easy towards the end of the Conference, and all of them did their job thoroughly. "I really take great pride in Irish pharmacy and the way in which it stood to us at this Conference," the president added. Mr. Rolfe had told him that the science sessions of the Conference were particularly well run, and had attracted fine attendances all through the week. The president read the Council a letter he had received from Mr. Sydney E. Campbell (president, Pharmaceutical Society of Northern Ireland) which said: "May I congratulate you and your

band of helpers on the remarkable success of the past week's Conference. I think you have reason to be very proud of the results of your labours, and I feel sure that the Dublin Conference of 1956 will pass into history as the best ever—not only in numbers but also in quality. Secondly, for myself I enjoyed every minute of it and I am happy to say that besides many old friends I have made many new ones."

Mr. Costello wrote: "When others are rightfully congratulating the president on the success of the Conference will you please offer my say-that I felt proud and pleased to be associated with a president whose personality, charm and dignity during the week made the whole Conference an outstanding event. I know we are all proud of him."

MR. McELWEE raised the question of the issue of maternity packs in co. Donegal, and MR. KISSANE referred to the manner in which forms were being sent out by the local authority in Tipperary in maternity cases. THE PRESIDENT undertook to bear the matters in mind when attending the next meeting of the National Health Council.

The licence certificate of Mr. Matthew Murphy was signed Mr. Patrick Joseph Fitzmaurice and Miss and sealed. Frances Kathleen McManus were elected members of the

The following were nominated for membership: Messrs. Michael Joseph O'Donoghue, 17 Newtown Park, Blackrock, co. Dublin; Patrick Joseph Bonfield, 5 St. Gall's Gardens, Milltown, Dublin; Patrick Joseph Mullany, Main Street, Portarlington, Leix; John Francis McGuire, 6 Church Street, Listowel, co. Kerry; and Miss Annie Margaret T. O'Rorkc, Ballisodare, co. Sligo.

At a meeting of the Benevolent Fund held at the close of the Council meeting a number of grants were passed for payment.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Dispensing Fees on Proprietaries

SIR,—The commentary contributed to your September 8 issue (p. 251) by "E. C. Tenner," under the heading "Open Shop" was very interesting and will be helpful to many pharmacists, but in the interests of accuracy I draw your attention to an error regarding the charge to be made to the private patient. The National Health Service payment for a proprietary is based on the net cost plus oncost plus dispensing fee, which in fact would result in the cost of supplying being less than the normal retail price. Therefore one need not feel guilty about supplying a proprietary on private prescription at the appropriate retail price without further fee, especially if dispensed from bulk.

Blackburn Wm. FRANCIS STEWART

A Bit of Economic History

SIR,—After reading your contributor's article on the history of the pharmacy department in Bristol Royal Infirmary, I turned out the enclosed, which may interest the historically minded among your readers.

Belfast JAMES DUNDEE "The enclosed" is a list of "Charges and Regulations for Apothecaries, 1804." It contains such items

as:
"Visit by a Master called out of Bed, £1 2s.

Do by an Assistant or Apprentice, 5s. 5d."

"Pills with Crystals of Silver, per Pill, 6d."

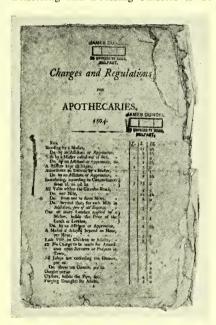
Sinapisms, 5s. 5d.

Purging Horse-Balls from 2s, to 2s. $8\frac{1}{2}$ d.

2s. 8½d.

The price of aq. menth. pip. was then 1s. 1d. per quart; of balsam of Tolu, 2s. 2d. per oz.; "ladanum" 5s. 5d. per fl. oz.; honey (mel opt.) 1s. 6d. per lb. Tinctures ranged from 1s. 1d. per fl. oz. for ferri muriat. to 5s. 5d. for sabinae comp. There were naturally many drugs now obsolete, such as Zedoaria, Vipera Siccat., Syrup Spin. Cerv., Ouercus Cort. abras., Puly. Spin. Cerv., Quercus Cort. abras., Pulv. F. Ciuctæ, Oculi Cancrorum, Millepedae pp., Electuar e Scordio and

Antim. Vitrificat. In a special section for children the first entry was "All Blistering and Dressing Plasters to be



rated at half the Prices of those for grown Persons." Another entry, grown entry, Another "Solutio Hydrarg. muriat, in Sp. Vini per oz.," was priced at only 6d.—an ominously low price, surely, for such a medicament.—EDITOR.]

A Dangerous Thing

Sir,-Judging from recent correspondence on the medical services in various countries, and the position of pharmacists within them, it is obvious that our own Royal Army Medical Corps and the Royal Air Force medi-cal services consider "a little knowledge" is quite sufficient for their dispensing staffs. From the financial aspect that may appear more economical, but is it? During World War I, I was a warrant officer in the Royal Naval Volunteer Reserve. Whilst helping to land heavy stores from river boats and barges at Qurnan, a little

river depôt at the junction of the rivers Tigris and Euphrates in Mesopotamia, I strained my back rather badly. An R.A.M.C. doctor instructed one of his staff to rub my back with embroca-tion, whereupon a sergeant took the first grubby looking tin out of a medi-cal pannier and began rubbing my back vigorously with some of its contents. The tin was not labelled. I realised by the smell and the pain it was giving me that he was using phenol liquefactum. He himself noticed something wrong. He said: "'Strewth, this liniment is strong. It's taking the skin orf me 'ands." Ju imagine what my back was like! spent several months in the base hospital recovering from severe burns, shock and carbolic-acid poisoning. That was not the only case of inefficiency and ignorance in the personnel of the Mesopotamian medical services. The Boer War scandals were happening all over again. Yet in World War II there was again a complete break-down in India and the Middle and Far East until a Lieutenant-Colonel, R.A.M.C., who was a Ph.C., M.P.S., took over and with a reorganised administration (conducted by a corps of pharmacists) produced order out of chaos. He brought economy too. Why does our Pharmaceutical Society allow the present unsatisfactory state of affairs to continue?

OLD SOLDIER

Status That is No More

Sir,-Your recent illustrations of historical old pharmacies bring back memories of days when the chemist was quite an important member of the community. In my early days we had four pharmacists on the staff and a c'ientèle which included members of the peerage and the "county folk." Everything was dispensed with the greatest care and everything was of the very best quality. Of what use is it all today? If only professional pharmacy had continued to exist there would be no doubt about the professional standing of the chemist at the present time.

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Between the 'up' and the 'about'

Serious illness is inevitably followed by a frustrating period of convalescence. Metatone,* with its stimulating, appetitepromoting combination of vitamin B₁ with strychnine and mineral glycerophosphates is ideally suited for the rapid restoration of normal metabolic function. It is specially valuable after 'flu and similar debilitating illnesses, after surgical operations, in neurasthenia and during pregnancy and lactation.

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Each fluid ounce of Metatone contains:

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Calcium Glycerophosphate	4 gr.
Potassium Glycerophosphate	4 gr.
Sodium Glycerophosphate	2 gr.
Manganese Glycerophosphate	ł gr.
Strychnine Glycerophosphate	8-200 gr.

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Protection Against Poisonings

A REPORT in *The Times*, dated September 18, from the Geneva correspondent of the newspaper, indicates that the hazard of accidental poisoning in the home has been discussed recently by the World Health Organisation's regional committee for Europe. The official report of the committee's proceedings has not yet arrived in this country* but, according to *The Times*, Britain's representatives on the committee were among those who drew attention to the danger. "On the one hand, there were insecticides and corrosive liquids, and, on the other, dangerous medicines which manufacturers had tried all too successfully to make attractive with bright wrappings, pretty colours and sugar coating on pills."

The Times goes on to state that, in dealing with the prevention of accidents, the committee suggests that children and elderly persons should be protected against dangerous drugs, corrosive liquids, and other hazards. How the committee would set about protecting those classes of people is not made apparent but, after discussing traffic accidents, the report concludes with the sentence: "The committee emphasises the value of education as the greatest single measure in the prevention of accidents."

Those are sentiments that we would fully endorse. The best protection is the engendering in young and old of a respect for medicines and the gradual cultivation of the simple habit of keeping medicines where children cannot get at them. The public should also be encouraged to dispose of medicines that have outlived their immediate usefulness, though that, apparently, can give rise to a hazard on its own when a fire is used for destruction. Probably the safest route is "down the sink."

There is a danger in the over-publicising of the hazards of medicines that the public may either become afraid of medicines, or so sated with exhortations that present ignorance may be replaced by complacency. It was for that reason that we discouraged some correspondents who sought permission to use the C. & D. Tablet Identification Guide in public displays drawing attention to the dangers of coloured medicines, especially when they looked like coloured sweets. The tablet guide is "for professional use only" and its use in public exhibition could too easily lead to a dangerously complacent "know-all" attitude on the part of the public. That is a possibility we have no wish to promote, and indeed would strongly deprecate.

*The report arrived on September 19 (see p. 309).

Food in the Pharmacy

It is common enough to see packeted teas or other foodstuffs on sale in pharmacies, and probable that there are few in which nothing is sold that renders the seller subject to the Food Hygiene Regulations now in force.

Wherever prepacked food is on sale the seller is now required to have readily available on the premises:—

A hand washbasin.
A supply of cold water.
Soap or detergent.
Nail brush.
Clean towel.

For some chemists—those who sell rusks or other foods "loose"—the requirements are rather more stringent. There must be a sink or other facilities for washing utensils and equipment, and an "adequate supply" of hot and cold water. Probably it may meet the situation to have a cold water supply and the means of heating it in appropriate quantities for washing equipment. The view of the National Pharmaceutical Union, given after taking legal advice, is that that would be adequate provision, though of course the matter is one that could be taken to the courts for decision.

If loose food is handled, moreover, certain first-aid requisites must be "readily accessible." They include "suitable and sufficient" bandages, dressings and antiseptic. It is an offence for any person to be handling food in a shop if he should have no waterproof covering over any open wound or abrasion. Any pharmacist who is not complying with those requirements should hasten to put things right, since a successful prosecution would be damaging to the reputation of pharmacy as a whole, and there is the additional possibility that it might become the occasion for disciplinary action by the Statutory Committee should there be any conviction.

Dearer Drugs?

For many months now, purchases of crude drugs and essential oils by domestic consumers have been made on a hand-to-mouth basis. As new-crop material became available, no-one seemed prepared, in the uncertain state of the market, to build up stocks, as was the practice formerly. The result was that merchants were likewise unwilling to carry stocks for any length of time, especially as the prices asked at origin were generally considered high. Yet, despite the lack of business, overseas producers held firm to their quotations, and often even advanced them. With the present Suez dispute, and higher freight charges—those from the Far East are already operating and others are expected shortly—a general rise in the prices of many botanical drugs and essential oils may be expected in the near future. By how much they will rise it is impossible to forecast, but it must be remembered that import duty, where chargeable, is levied on the landed price of an article so that, not only does the importer have to pay more for carriage, but the import duty

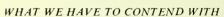
Even if a quick solution to the Suez problem be found, and the outlook at the moment of writing is not promising, a period of hardening prices and further shortages seems unavoidable.

Onward from Galen A CURRENT CAUSERIE

PHARMACISTS show up rather well, one would say, in an episode recorded in a recent issue of the Blackpool Gazette & Herald, despite the fact that one of them was concerned in an encounter with the police. Miss L. I. Anderson, M.P.S., who is the proprietor of a pharmacy at Topping Street, and whom many Conference regulars will remember for her genial and active part as a member of the Local Committee at the Blackpool meeting of the Conference in 1949, had been distributing largesse in the form of broken biscuits to seagulls on the promenade during an off-duty period, only to be stopped by a constable. It was an offence against local by-laws, he told her, to "drop litter." Miss Anderson, rightly claiming that she was a law-abiding citizen and all for the cleanliness of the town, at once offered to act as crossing-sweeper and leave no trace of her misdeeds. Calling on a chemist colleague for the loan of a brush, she beat the hungry birds to it for what remained of the crumbs and soon had her 10 sq. ft. of promenade spotless and unblemished, with everybody satisfied except the seagulls and sparrows. What dire penalty would have been imposed if Miss Anderson had been hauled before the Beak none can say, but every pharmacist will join in commending her for acting in accordance with the highest ethics of the profession. The reputation of pharmacy remains unsullied, and not even the Statutory Committee need consider further disciplinary action.

ALTHOUGH not specially interested in the physique of London busmen, who are the subject of an article in the Lancer of September 15, I found its subtitle "Epidemiology of Uniforms" irresistibly intriguing. I am glad I did, for it has raised my admiration for the resourcefulness of research workers. In a joint inquiry by the social medicine research unit of the Medical Research Council and the medical department of London Transport Executive the happy thought occurred that, since the uniforms of busmen "seemed on considerable personal observation to fit reasonably well, a study of the sizes of uniforms issued would "rather simply and economically" give a clue to the physique of the wearers. The results, recorded in a table in which two of the headings are "Percentage with trouser waist of 36 in. or more" and "Percentage with jacket breast of 40 in, or nore," show that the men's girth increases with age among both drivers and conductors. That only confirms what would be expected. More significant is that "the girth of drivers is greater—at every age—than that of conductors." Any passengers of belligerent tendency may thus be reassured that they are quarrelling with the right man when they pick on the conductor. In these days when a proportion of the conductors are conductorettes, and not always in skirts, one hopes that the averages for conductors were not lowered by accidental inclusion of ladies' slacks among the gent's trousers, or that, if they were, any error due to garments of the young and slender was compensated by others designed to accommodate middle-aged spread. The basic idea, now that it has been applied, may well suggest other statistical assays, not necessarily in the medical field. A "simple and economical" glance by the aid of an usherette's torch beneath the rows of seats might reveal, by the number of shoes not connected to feet, the proportion of females to males in cinema audiences. Or a study of hat sizes in the cloak room at a Pharmaceutical Society branch dinner the number of intellectuals (branch members) compared with the number of outsiders. One hopes to hear of new applications of the method.

WHETHER by design or happy coincidence, the announcement of the policy of distributing Family Doctor booklets through chemists (see p. 313) appears in the same issue of that popular periodical as a handsomely illustrated two-page "Portrait of a Pharmacist" in which the 233-year-old pharmacy at High Row, Darlington, is attractively described by Norman Phillips. A good deal of knowledge about the profession and practice of pharmacy is more than painlessly imparted in the course of a conversational account of how the present proprietor, Mr. Bernard Hodgson, followed his father into proprietorship of the business, and the article should help in a positive way to counterbalance some of the less fortunate publicity given all too frequently in the lay Press to alleged misdeeds of pharmacists.





"I've just seen the doctors about our new products"

O BRAVE NEW WORLD (that has such medicines in it)

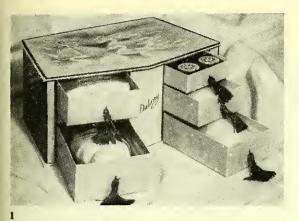
Exorcise the lurking spectres
While you take your morning bath; With a gentle TRANQUILLISER Bar frustrations from your path.

Then at lunch, when swift time's precious, Both your purse and leisure swell; Undermine your taste for victuals With AMPHETAMINE'S sweet spell.

Later, steeped in leaden doldrums, Slip the hand of black despair; With some gentle ANTIDEPRESSIVE Bring your cerebrum to bear.

So at last, when shadows lengthen, Thieves steal forth, and neighbours yawn, Gulping down your BARBITURATE Sleep—all's well until the dawn!

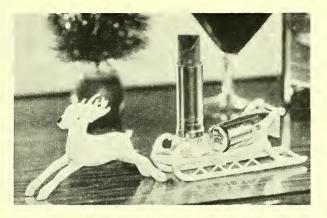
PETER COOPER











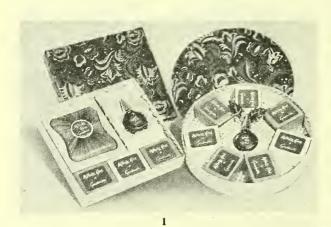
WHAT MANUFACTURERS ARE OFFERING FOR

CHRISTMAS

AS a guide to the selection of products offered by manufacturers for the Christmas trade the chemist and described. Sixty photographs of diverse gift packs are illustrated and described.

- 1. Dubarry Perfumery Co., Ltd. Decorated in a colourful "ballerina and swan" design, the coffret contains talcum, satin bath crystals, bath salts tablets, satin complexion soap, and satin bath soap.
- 2. J. & E. ATKINSON, LTD. In a "gold stars on cream" motif, the coffret contains face powder, tinted foundation cream, lipstick, powder rouge and cleansing cream.
- **3.** A. S. Brown & Co. (Manufacturing), Ltd. Mascot dressing table brush set available in real or imitation petit point embroidery in silk-lined presentation box. Matching accessories are available.
- **4.** Gala of London, Ltd. A manicure case in washable, simulated cane finish containing two nail colours, remover, orange sticks and emery boards.
- 5. RICHARD HUDNUT, LTD. An ornamental reindeer sleigh presentation of Blonde Dubonnet lipstick in a smart gilt case with a square-cut, crystal clear base.
- 6. MORNY, LTD. Left: men's gift coffret of lavender flowers after-shaving lotion and shaving bowl. Right: bathtime lavender flowers gift coffret containing bath dusting powder (without puff) and two large bath soap discs.

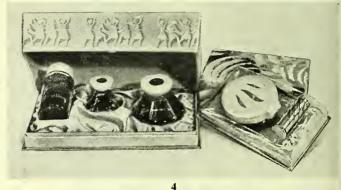








- 1. J. GROSSMITH & SON, LTD. Colourfully designed in gold foil overprinted in bright colours, these White Fire coffrets contain, left: soap, perfume and three bath cubes and, right: perfume and seven bath cubes.
- 2. F. MILOT (agents: E. G. Perrot & Co., Ltd.). A tastefully designed bottle containing crêpe de Chine perfume.
- 3. LUFT-TANGEE (LONDON), LTD. A gift coffret containing standard size Tangee lipstick and Tangee rouge vanity. The colour scheme is soft dove grey and ruby red.
- 4. YARDLEY & Co., LTD. Left: One of the Flair series of gift coffrets in pale green with embossed dancers. It contains bath oil, perfume and Flairessence, Right: A gift set containing Feather Finish and "new" lipstick in colourful "plume" decircle her between the series her sign box.
- 5. POTTER & MOORE, LTD. Left: Carefree perfume and face powder and right: a gift set for a man containing a shaving bowl and after-shaving lotion, both in gaily decorated boxes.
- 6. CHESEBROUGH-POND'S, LTD, Left: In a "mistle-toe magic" gift pack are Vaseline hand cream and Pond's Dreamflower talc. Right: One of Pond's "charm kit" range containing face powder, lipstick, cleansing cold cream, and foundation vanishing ing cream.
- 7. COLGATE-PALMOLIVE, LTD. Left: Gift pack containing two bars Cadum toilet soap and six Cashmere Bouquet bath cubes. Right: A "skating scene" box containing Cashmere Bouquet talcum and bath cubes.



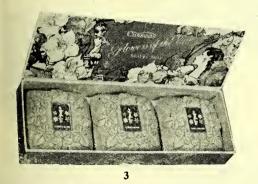




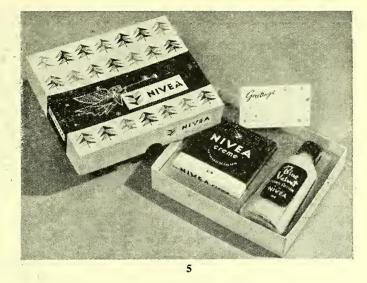












- 1. ADDIS, LTD. A gift set from the "beauty brush" range comprising hair brush, comb and hand mirror available in transparent jewel colours and pearlescent materials. The box is richly decorated and has an acetate cover.
- 2. J. BIBBY & SONS, LTD. The Araby cottage contains four tablets of Araby toilet soap.
- 3. Cussons, Sons & Co., Ltd. Most recently introduced in the Cussons' range is the perfume Flowers of the Vine available as a soap or talcum powder. The soap is available individually and in packs of three.
- 4. SOLPORT BROS., LTD. Portia novelty face cloths in many pleasing forms to suit all tastes.
- 5. SMITH & NEPHEW, LTD. Nivea crême and Blue Velvet hand lotion are combined in a bright and attractive Christmas coffret.
- 6. H. BRONNLEY & Co., LTD. Tied with a gay ribbon the set contains beauty bath dusting powder and nine bath cubes. Available in English fern, rose geranium, and mignonette.
- 7. RECKITT & COLMAN, LTD. In the form of a book entitled "Twelve Aids to Loveliness" in red and gold or blue and gold, are packed twelve assorted Bathjoys.





1. DUBARRY PERFUMERY Co., LTD. Left: Rainbow-hued box of six bath cubes. Centre, colourful coffret with "ballerina and swan" motif. Right: A colourful drum containing Dubarry bubble bath.

2. BEAUTY SERVICES, LTD. Harriet Hubbard Ayer toilet water in a coffret trimmed with a gay red ribbon.

3. RIMMEL, LTD. Left: Visi-Pak coffret containing Flowers-in-Ice solid Cologne, waist-shaped bottle of matching mu-guet perfume and lipstick in gilt case. Centre, three "R"-shaped bottles of French perfume on a Christmas card. Right: Flowers-in-Ice solid Cologne, on a Christmas bow.

4. JEAN SORELLE, LTD. Three presentations of Sorella champagne bubble bath preparations.

5. BOURJOIS, LTD. A presentation cof-fret containing lavender water and lav-

ender toilet soap.

6. W. W. HAFFENDEN, LTD. Fully three-dimensional hot-water bottles in the Countryside series, the "puppy" and "lamb" are sure to appeal to children.

7. JARRETT, RAINSFORD & LOUGHTON, LTD. Stratton combination compact, lipstick holder, and cigarette case in gilt. 8. DELAVELLE, LTD. A dragonfly pack of Admiration perfume. The bottle can be unclipped from the wings.

9. R. J. REUTER Co., LTD. (sole selling agents: Scott & Bowne, Ltd.). In its attractive new pack is the 4711 eau de Cologne.

10. VINOLIA Co., LTD. Decorated with a seasonal motif on transparent wrapping are three tablets of toilet soap.

11. YARDLEY & Co., LTD. Gay coffret for men containing talc and shaving cream.

12. E R. HOLLOWAY, LTD. Left: Pearluxe hair brush, dressing comb and handy clothes brush in pearlescent plastic filled with nylon in a well-designed transparent lid. Available in pink or turquoise pearl finishes. Centre, an elegant Barnet trinket tray and two combs in pink or turquoise packed in a "windowed box." Right: Barnet combination travel set of matching hair brush, comb and clothes brush with two polythene bottles and jar.

13. COTY, LTD. A cream powder compact and flask of perfume available in five scents.

14. INNOXA (ENGLAND), LTD. A group of Paris Mist Christmas sets comprising (from left to right) hand lotion and soap; bath bouquet and talcum powder; soap and talcum powder; bath cubes and perfume; bath bouquet; and a cof-

fret of soap, perfume and bath cubes. 15. STEINER. Eau de Cologne in simple but attractive presentation.

16. NIKKI NOVELTIES, LTD. replica of a spinning wheel to which is attached a flacon of French perfume.

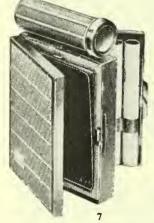
17. DOROTHY GRAY, LTD. Transparent coffret containing White Lilac toilet water and a box of dusting powder.









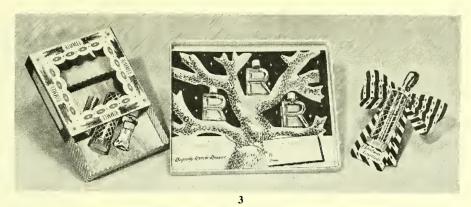




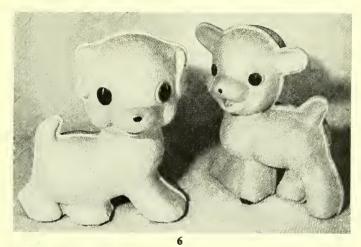




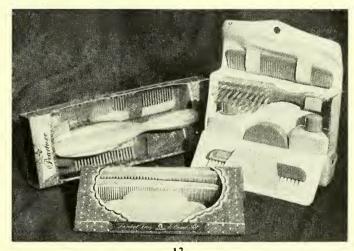








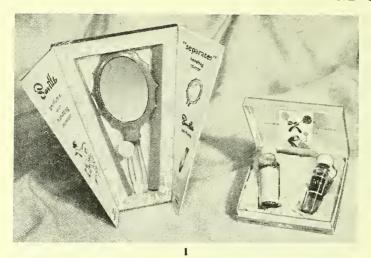




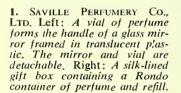












- 2. Goya, Ltd. A group of Corvette gift packs including the harbour set containing one shaving stick and after-shave lotion; individual pack of after-shave lotion, and two tablets of toilet soap; anchor gift No. 1 containing shaving bowl and after-shave lotion; and for gift No. 2 containing hair cream and shaving sowl individually packed.
- 3. DUNLOP RUBBER Co., LTD. Household rubber gauntlets with long cuffs to safeguard sleeves. Flock-lined, the gloves have a studded surface to give a good grip.
- 4. James North Distributors, Ltd. Left: North multipurpose polka-dot jersey gloves

with fleecy lining. Centre: Northands fabric-lined tan polyvinylchloride gloves with knitted wrists. Right: Fabric-lined Glovelies in blue PVC for house and garden use.

- **5.** ROBERTS WINDSOR SOAP CO., LTD. In seasonal presentation pack are three tablets of toilet soap available in six perfumes.
- 6. and 7. D. & W. GIBBS, LTD. An amusing presentation of Erasmic sliaving stick holder, and the costermonger's barrow containing an Easy shaving stick in push-up holder with refill.
- 8. R. J. REUTER Co., LTD. (sole selling agents, Scott & Bowne, Ltd.). 4711 eau de Cologne with recently re-designed carton and more closely woven wicker covering.
- **9.** SPONCEL, LTD. Spontex toilet sponge with red and green seasonal tag.
- 10. CUSSONS, SONS & Co., LTD. The "Little bluebirds" pack comprises three tablets of hand-painted toilet soap.























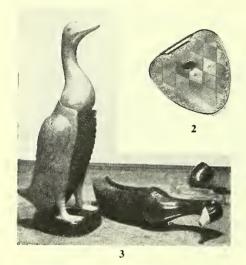
- 1. Cussons, Sons & Co., Ltd. Imperial Leather gift coffret for men containing a shaving bowl, after-shave powder and a bottle of liquid brilliantine. A colourful "serenade" scene is depicted on the top of the coffret.
- 2. EVER-READY RAZOR PRODUCTS, LTD. Left: Pal razor combination set in red and gold striped pack containing shaving brush, blades, razor and Cussons' Imperial Leather shaving stick. Right: Pal Injectomatic "de luxe" model in bronzed metal

and simulated leather case.

- 3. REMINGTON RAND, LTD. Four-most electric shaver with handy zipup leather case containing lead-wire and cleaning brush.
- 4. RONSON PRODUCTS, LTD. Left: The "stowaway" lightweight pack which is unbreakable and washable, holding the Ronson electric shaver, flex and brush. Right: The "trip kit" in coach hide, contains the Ronson shaver, flex, adaptor, cleaning brush, tooth-brush, tooth-paste, comb, mirror and nail file.
- 5. ARVIN ELECTRIC, LTD, The nylon and metal Fernbrook electric shaver in presentation case. The b!ades are self-sharpening.
- COUNTY LABORATORIES, LTD. The Brylcreem home dispenser is designed to give the right amount of cream at a touch and should prove a popular gift.















1. MAX FACTOR HOLLYWOOD AND LONDON (SALES), LTD. Electrique Cologne perfume and Electrique talc in an oval presentation set. The perfume is in a special 2-oz. bottle, and the pack is in colourful blue and gold. Individual packs of the Cologne perfume are available also, in two sizes. Specially packed for the Christmas season also, are six gift sets of "colour harmony" make-up containing from two to eight pieces.

2. Kigu, Ltd. A gilt, heart-shaped compact with harlequin pattern, supplied in black moire drawstring Dorothy bag (not illustrated).

3. Hughes Brushes, Ltd. Moulded in unbreakable plastic, in metallised blue, green, or speckled crean and brown, the Dandy Duck novelty conceals a bristle clothes brush.

4. POTTER & MOORE, LTD. A transparent beauty case, decorated with pink polka dots, and containing jars of liquid foundation, cleansing cream and nourishing cream. It is one of two "special

gifts" which the company is issuing.

5. REVLON INTERNATIONAL CORPORATION. In a scarlet simulated leather manicure case with cream-coloured lining are contained bottles of enamel, velvety non-smear remover, and Adheron basecoat, and an emery board and cuticle stick. Also designed for Christmas is a gold and red embossed tube containing two Revlon non-smear lipsticks, to which is attached a gold-foil tag with which to hang the gift on a Christmas tree.

6. SAVILLE PERFUMERY, LTD. Left: A casket moulded in pearlfinished plastic with transparent lid. In three pastel shades, green indicating June perfume, blue for Mischief, and pink for Seventh Heaven. Right: Perfume cocktail shakers in display carton. Available in four colours, the shakers are supplied with individual envelopes.

7. COLGATE-PALMOLIVE, LTD. An amusing Christmas motif decorates this gift pack for men containing one bottle of Cue hairdressing and one large tube of Palmolive lather shaving cream.

BRITISH PHARMACEUTICAL CONFERENCE, 1956

SECOND PROFESSIONAL SESSION

The problem of keeping up-to-date

INTRODUCING the author of the paper (Mr. H. W. Tomski, B.Com., M.P.S.), at the second professional session, Mr. Granville Shaw (Conference president) said that Mr. Tomski, who had flown from London that morning for the session, would be pleased to answer questions on the paper, the title of which was:—

Developments Affecting Pharmaceutical Practice

(Abridged)

TO pharmacists, the industrial and medical revolutions are of more than historical and social interest, for the great changes gave rise to secondary reactions which profoundly influenced the future of pharmacy as a trade and as a profession. Pharmacy must keep in step with those new developments if it is to fulfil its proper function to the community. The pharmacist's training has, no doubt equipped him with the necessary fundamental knowledge, but he needs more than mere fundamental knowledge. He needs continuous sources of information to keep abreast with modern trends in all fields of pharmaceutical practice, whether scientific, technical, economic, commercial or legal

commercial or legal.

Pharmacy up to the advent of the synthetic remedies towards the turn of the century was a relatively simple calling, concerned almost entirely with the collection, preparation and compounding of medicinal substances in general use. In modern pharmacy, however, the scientific aspect is gradually taking the place of the ancient art of dispensing. Based on progress in the fields of medicine, pharmacology, immunology, and allied subjects, pharmacology, and allied subjects, and all subjects are all all subjects and all subjects are all subjects and all subjects are all subjects are all subjects and all subjects are macy allows the benefit of basic discoveries to be made available to the community by introducing suitable methods of formulation, by devising assays for estimating potency, by ensuring stability on keeping and by offering unbiased and well-informed advice on therapeutic efficacy. Unless pharmacists are able to provide those services to the medical profession and to the public, their professional status is bound to decline as the years go on. The need for reliable and up-to-date information will, therefore, increase progressively.

Journals for the Pharmacist

The following journals should provide the pharmacist with a good overall picture of current news and opinions in medicine and pharmacology: The Lancet or the British Medical Journal. The former is more advanced in outlook although that is in no way intended as a criticism of the B.M.J.'s editorial policy. Indeed, in times of rapid changes a more conservative and critical attitude towards new methods of treatment is often an essential safeguard against over-enthusiasm. Never-

theless, from the pharmacist's point of view the Lancet is the more valuable publication of the two; the Journal of Pharmacy and Pharmacology (recommended for its abstracts section); Modern Medicine of Great Britain (a new publication containing condensed articles from medical journals at home and abroad).

All technical journals in pharmacy publish digests of recent pharmaceutical developments and articles giving technical details on some of the more important new therapeutics.

Libraries

The Pharmaceutical Society's library is always ready to suggest suitable reading material and to help in the search for relevant published information. Excellent facilities are also provided by the British Museum, and most public libraries have a good medical section.

Information Departments

The larger pharmaceutical houses maintain medical information departments which are probably the easiest and most convenient source of information available to pharmacists.

Text-books

The following would constitute a useful small reference library:

- (1) The British Pharmacopæia and Addenda.
- (2) The British Pharmaceutical Codex and Supplements.
- (3) The Extra Pharmacopæia Vols. 1 and 2.
- (4) United States Dispensatory.
- (5) The Merck Manual.
- (6) The Pharmacological Basis of Therapeutics.

New Specialities

During the past fifty years the use of ethical" specialities has increased "ethical rapidly. Development has been speeded up to such an extent as to cause serious embarrassment to pharmacists in retail and manufacturing alike. So many new products have been marketed during the past ten years that many pharmacists have experienced difficulties in trying to keep in step with new introductions. In their own personal interest and that of the profession as a whole, pharmacists must become fully conversant with new preparations, their storage properties, their side-effects and with their advantages and limitations over other similar therapeutics. Unless pharmacists are aware of the existence of a new speciality, they may even sometimes find it difficult to read prescriptions and to interpret the physician's directions accurately.

The following sources of information are available to help the pharmacist in his task: The Pharmaceutical Society's Index of New Products; the new prescription products supplement of the Alchemist; the Guide to New Medicaments feature of THE CHEMIST AND DRUGGIST; the Retail Chemist trade price list; "The Compend"; "Modern Drug Encyclopædia" published in the United States; manufacturers' price lists; pharmaceutical periodicals; and advertisements in the medical Press. Among foreign publications, the three most useful with details of continental specialities are "Gehe's Codex," "Repertorium pharmazeutischer Specialpraparate" and "Le Livre Blanc."

Business Administration

Retailers who keep up-to-date are likely to adapt themselves more readily to the many changing conditions which they are bound to meet in the future. Pharmacists, therefore, will have to pay more attention to modern methods of retailing than they did in the past. They will have to study more closely changes in the legal aspects of pharmacy as a trade and profession, and they will have to seek more precise information on government regulations, retail pharmaceutical statistics, general management problems and on basic economic questions arising in the conduct of their business.

Law

Legislation directly affecting the practice of pharmacy, e.g., the Pharmacy Acts and their rules and amendments, are published by H.M. Stationery Office. A pharmacist wishing to keep up-to-date with current legal matters in general should study the daily law reports in The Times and should have a quick glance through the London Gazette. Current Law, a monthly publication of topical interest, is recommended for additional reading. Besides publishing decisions in recent law cases, the booklet also refers to departmental circulars, decisions of special tribunals and statements of government policy. "The Retailer's Guide to Trading Law" should help the pharmacist to avoid mistakes likely to be detrimental to the business.

Taxation

With increased competition and declining margins, a retailer who pays more in taxes than he is legally required to pay suffers a serious disadvantage over his competitors. Professional accounting publications, e.g., the Accountant and Accountancy, periodically report details of tax cases and publish well-informed articles and comments. The Financial Times (most frequently in its Saturday number) discusses the practical implications of tax decisions in a plain and factual manner, and pharmacists may read with advantage the answers to "Any Business Questions," which is a regular feature in The Chemist and Druggist.

Economics and Statistics

To operate management controls by comparison, pharmacists need reliable data in order to measure the performance of their own businesses and to review their progress against predeter-mined standards. The "Monthly mined standards. The "Monthly Digest of Statistics" includes an index sales of chemists' goods sold by 592 independent pharmacists, photographic dealers, etc., controlling fewer than ten branches each. Separate figures are given for department stores, multiple shops and retail co-operative societies. Sales are compared month-by-month on the basis of weekly average sales during 1950. In the "Census of Distribution" details of sales, gross profits, wages and salaries, stocks, etc., are given relating to pharmacies in Great Britain. Regional and national prescriptions statistics are published at certain intervals in the pharmaceutical Press with details of the number of prescriptions dispensed and their total and average costs. Nielsen surveys and reports are summarised from time to time in the pharmaceutical Press, and attention is drawn to the proportion of income from N.H.S. dispensing, to changes in turnover, to sales-employee relationship and to the size of staff employed in pharmacies differing in turnover size and type of organisation. The total number of registered premises in Great Britain can be ascertained from the report which the Registrar of the Pharmaceutical Society publishes annually. Information is also given as publishes to the number of branch pharmacies and of separate organisations carried on under the Companies Acts. The Society's register classifies premises of authorised sellers on the basis of counties and towns (and postal districts in the case of London) and thus allows for a more rational approach towards the opening of new pharmacies according to local pharmaceutical needs. Occasional research papers and reports of direct interest to pharmacists appear in various economic, market research and statistical publications. It is obviously impracticable for pharmacists to read all such publications. The Journal of the Royal Statistical Society carries reviews and abstracts from British and other periodicals and can serve as a most valuable reference guide.

Business Management

An analysis of U.S. pharmacies which went bankrupt in 1954 indicates that incompetence and lack of managerial experience were responsible for more than 62 per cent. of failures, while a further 15 per cent. of the pharmacies suffered financial disaster because of the proprietor's lack of experience in buying, financing and selling. Until recently, surprisingly little has been published in this country on the art and science of shopkeeping, but techniques employed in manufacturing, e.g., time and motion study, motivation research, etc., have been applied on an increasing scale in an attempt to solve problems in retail manage-ment. As an example, the Department of Scientific and Industrial Research

has undertaken special investigations into retail operating methods, and their reports have made useful recommendations in connection with display, priceticketing, staff supervision and other practical retailing problems. Business management in its wider and more accepted sense includes such varied aspects as book-keeping and accounting, costing and profit control, staff re-lations and general organisation, buying and marketing.

The Daily List of Government Publications contains details of statutory instruments, of parliamentary and nonparliamentary publications and of publications sold but not published by H.M. Stationery Office. Daily reading will direct attention to wage awards, reports by the Ministry of Health, statements by the World Health Organisation, publication of the Census of Distribution and Population and to special surveys and reports. Management Abstracts, published by the British Institute of Management, abstracts articles from British and other sources which discuss specific retailing problems in addition to references to financial management, general organisation and personal problems. The Library Bulletin of the Institute may be described as the natural companion to Management Abstracts.

Generally, pharmacists are much too busy to read through medical literature and to digest even the small selection of professional, legal and com-mercial publications outlined in this paper. An efficient filing system, when linked with a set of stock-location cards, will be of considerable help, but there are occasions (especially in legal and accounting matters) where strict editing of the information is essential and where the pharmacist is not necessarily the person best qualified to perthat responsible task. Geoffrey Heyworth appreciated those difficulties when he said that "the more facts one has the better the judgment one can make, but . more facts one has, the easier it is to put them together wrong." Pharmacists need more information, but the kind of information they need must be concise, though detailed enough to be of practical use, and it must be available

when it is most needed.

A great deal of the information published today is distributed through the pharmaceutical professional and trade Press. Are those services adequate to our needs and in keeping with modern requirements? Could they be effectively improved and extended? Should the scope of the information be confined to problems of national pharmaceutical practice or should we aim at a World Digest of Pharmaceutical Facts and Figures? Should certain periodical publications specialise in one or two well-defined aspects of pharmacy or should we rely on the competitive spirit among editors to give us the most efficient and the most up-to-date information services? How should the average pharmacist deal with the mass of information collected from various sources? Should he keep a complete and elaborate filing system of the original material or should he

prepare abstracts and record only important references? Should he provide comprehensive library of medical literature for the benefit of medical and veterinary practitioners or should information be kept solely for the pharmacist's personal use? Where should the centre of information be located? Should it be in the individual pharmacy where information is stored for future reference or should a Central Pharmaceutical Office of Information be established to provide expert answers at a moment's notice? Should the Central Office be responsible for pharmacy's publicity or should its activities be confined to the provision of information to members? pharmaceutical economic and social research be one of the functions of the unit and should its services be available to pharmaceutical bodies in their negotiations with government authorities, industrial councils, etc.? Finally, who should defray the operational expenses of a central office of information if such an organisation be deemed necessary? Those are some of the more important questions which require immediate and critical examination by those in daily contact with the practical problems.

Challenge of Pharmacy

In an attempt to study attitudes of mind shown by members of certain marginal occupations, American sociologists have recently paid close attention to the behaviour of pharmacy students. Pharmacy is of special interest to them, because "the rôle of the pharmacist is unstable to the degree that it is beset by the cross-pressures of the business and professional worlds" and because the conflict within the profession is due to "the rapid economic and technological developments of the past thirty years." Sociologists may be genuinely interested in the persuasiveness and the strength of the situational image of pharmacy and its socio-economic status, but for pharmacy itself the position of a marginal occupation is more than a marginal problem and a dilemma. It is a challenge which dilemma. It is a challenge which pharmacy has to accept if the calling is to continue as an independent trade and profession. Pharmacists must keep up-to-date with the many scientific and technological changes which occur not only in the profession of pharmacy but also in the profession of retailing.

PUBLICATIONS

DAILY

Daily List of Government Publications: H.M. Stationery Office, London.
The Financial Times: The Financial Times, Ltd.,

London.

The Times: The Times Publishing Co., Ltd., London.

WEEKLY

The Accountant: Gee & Co. (Publishers), Ltd., St. Albans, Herts.
The British Medical Journal: British Medical

Association, London,
THE CHEMIST AND DRUGGIST: Morgan Brothers
(Publishers), Ltd., London,

The Lancet: The Lancet, Ltd., London,
The London Gazette: H.M. Stationery Office,

London (biweekly). The Pharmaceutical Journal: The Pharmaceutical Society, London,

MONTHLY

Accountancy: Society of Incorporated Accountants, London.

Current Law: Sweet & Maxwell, Ltd., London. Library Bulletin: British Institute of Management, London.

Modern Medicine of Great Britain: Modern

Medicine of G.B., Ltd., London.

Monthly Digest of Statistics: H.M. Stationery
Office, London. The Alchemist: Thomas Waide & Sons, Ltd.,

The Journal of Pharmacy and Pharmacology: The Pharmaceutical Press, London.

The Retail Chemist: Drury Press, Ltd., London.

Books

Gehe's Codex: Wissenschaftliche Verlagsgesellschaft, Stuttgart.

Le Livre Blanc: Editions Perrier, Paris.

Modern Drug Encyclopædia: Drug Publication, Inc., New York, U.S.A.

Repertorium Pharmazeutischer Producte: Verlagsgesselschaft Beobachter A.G., Basel

The British Pharmacopæia: for the General Medical Council by The Pharmaceutical Press, London,

The British Pharmaceutical Codex: The Pharmaceutical Press, London,

The Compend: John Wright & Sons, Ltd., Bristol. The Extra Pharmacopæia: The Pharmaceutical Press, London.

The Merck Index: Merck and Co., Inc., Rahway, U.S.A.

The Merck Manual: Merck and Co., Inc., Rahway, U.S.A.

The Pharmacological Basis of Therapeutics:

Macmillan & Co., New York. The Retailer's Guide to Trading Law: Jordan & Sons, Ltd., London,

The Retail Chemist Trade Price List: Drury Press,

Ltd., London.
United States Dispensatory: J. B. Lippincott,
Philadelphia, U.S.A.

Further Changes Outlined

The paper having been taken as read, Mr. Tomski said he hoped that he had been able to show that keeping up-to-date was one of the most important professional duties of a pharmacist. Even since the paper had been written there had been a number of changes, some of minor importance and some of considerable significance. There had arrived oral antidiabetic substances, a number of tranquillisers, and improved forms of steroid hormones. A large number of new formulations had appeared, combining antibiotics with hydrocortisone or cortisone, and experiments had been made with new methods of sterilisation by irradiation. In matters of law there had been an important decision in Higgins v. Silversion on the interpre-tation of the wording "other prem-ises" in connection with the Rent Acts. That ruling had far-reaching implications where premises were converted into separate and self-contained dwelling units: Another ruling, under the Income Tax Acts, stated that a motor car partially used for business and partly for private purposes might contain an element of personal choice beyond the strict needs of the business, and that the full business gross allowance could, therefore, be reduced accordingly. In the field of retailing, the trading stamp topic had been the most controversial issue, especially in the United States, where the largest stamp company was reported to serve fifteen million households, and a new idea, store currency, was being increasingly used by retailers in Austra-

lia as an encouragement to impulse buving. .

Filing for Ouick Reference

In practice an efficient filing system was needed for quick reference, and such a system should be linked with stock location cards. Those cards, arranged in alphabetical order and kept within easy reach, should give immediate information as to the name of the product, name of manufacturer, type of packs available, retail selling price, trade price, purchase-tax liability, and the location of the product in the pharmacy, the card to be used as a master card for any additional information. By that arrangement medical literature need not be filed under product name or under a system of therapeutic classification, but could be filed simply in numerical order. The number could then be entered on the card.

Mr. Tomski concluded that more and better information would be needed in the future and that lack of factual information led to mistakes. "Within pharmacy we must create a continuous record of information so that we and future generations of pharmacists can learn from the mistakes, preferably of others. We just haven't the time to

make them all ourselves."

MR. J. C. BLOOMFIELD, Portsmouth, after congratulating Mr. Tomski on his paper, said that there were one or two things that ought to have been included in the paper. He spoke of the "dismissal" of the Society's library in a few lines, and drew attention to the wide range of information that was available there. Another omission was the National Pharmaceutical Union, which provided one of the widest information services on legal and business questions and governmental publications. Mr. Bloomfield also drew attention to the C.F. publication, Chemists Friend. Many changes were taking place on the legal side, and Mr. Tomski was correct in saying that the pharmacist had not the time to read reports to keep him up-to-date with those questions. Generally, new proprietary preparations were first tried out in hospitals, and so pharma-cists in retail practice could get information from their hospital colleagues. That question of liaison between hospital and retail pharmacy had been raised at the Aberdeen Conference. Commenting on Mr. Tomski's suggested "central office of information, Mr. Bloomfield said that the Society and the N.P.U. had existing central inquiry systems, and he did not think the setting-up of another office would be of any benefit.

Local Wholesalers Can Help

MR. K. HOLLAND, Romford, pointed out that the efficient filing of informaout that the efficient filing of informa-tion took up time that they just could not spare. He suggested that local wholesalers should be encouraged to maintain information services. Mr. Holland also suggested that medical representatives should be asked to call on pharmacists before calling on doctors in the area, so as to let pharmacists know what was going to be said to the doctors. He felt that there could

perhaps be included in the syllabus of the Qualifying examination a course on pharmaceutical business methods, which were advancing all the time with the same rapidity as technological

knowledge.

Replying, Mr. Tomski said that the speakers had brought up a number of points which he had not forgotten but which he had not elaborated. He realised that the Society's library was a good information centre, but he won-dered how the librarian would get on if it were used as suggested. He thought that, by mentioning the services pro-vided by manufacturers, he had by manufacturers, he covered the wholesaler information service suggested. He had hoped to hear more on the proposed central office of information, but apparently that had not gone down so well as he had hoped.

A Task for Pharmaceutical Committees

MR. W. F. WILKINSON, London, favoured the central information office and suggested that local Pharmaceuti-cal Committees should be made responsible for distributing information on legal items that could be of interest to pharmacists.

MISS M. C. ISLIP, Harrow, thought that Mr. Tomski's suggested card index was very good. Despite the suggested central office, there was still the re-sponsibility of the individual to maintain his own reference system.

MR. R. B. WILLIAMSON, Derby, described Mr. Tomski's paper as an interesting survey of trends. He, too, had been surprised at the lack of reference to the N.P.U. information department. He mentioned the Index of Modern Remedies which had not been covered in the paper, and suggested the use of cine film for filing. The best filing system, he said, was one's own memory, and the training a pharmacist received was far better than any course in Pelmanism, etc.

An Idea Commended

MR. Tomski commended Mr. Wilkinson's idea that local Pharmaceutical Committees should become responsible for distributing legal information. His idea of a central office of information was that the service should include a news-sheet sent out periodically, providing an abstracting service. memory, he pointed out, could only reproduce what had been learned. Cine film was being used in America for copying prescriptions, but he thought that it would not prove a practical proposition.

MR. R. H. KEMP, Southend, thought that London pharmacists had an advantage over their provincial colleagues in the ease with which they could obtain information. He suggested that information centres should be set up in teaching hospitals and institutions, from which it could be obtained

quickly by telephone.

MR. A. M. McCarthy, Croydon, said that hospital and nursing journals carried information on cases treated with new drugs, and he thought it would be useful if the pharmaceutical Press carried similar details.

Miss D. Murgatroyd, London. held that the main preoccupation of the pharmacist in retail business must be time and space. Micro-filming was an excellent way of keeping records from the point of view of space saving, but the time it demanded made it wholly impracticable. In her pricing bureau they had found the method suggested by Mr. Tomski took up surprisingly little time to maintain. It was a small, easy, and quick reference.

Mr. E. ROBINSON, Bradford. accused the publication section of the Pharmaceutical Society of being seriously lacking in its responsibility to the individual pharmacist.

Self-service

MR. C. E. TURNER, Stoke-on-Trent, asked Mr. Tomski whether he thought retailing by self-service was practical for pharmacy, considering the pharmamist's responsibility for the sale of

poisons.

MR. Tomski's reply was that self-service was already there. In the United Kingdom there were 3,500 selfservice stores and about thirty or forty "supermarkets." In the United King-dom a self-service pharmacy had been in operation for some time by a multiple store which had a pharmacy nearby to which prescriptions were taken. The 3,500 self-service shops, mainly Cooperative, so far sold only food, but American experience had shown that the next step was the self-service of toilet goods. Mr. Tomski said that the supermarket question was going to be a big thing in twenty years' time. It was the supermarket which would start price-cutting and would prove whether the continuance of the Proprietary Articles Trade Association in its present form was right or not,

MR. S. DURHAM, Sheffield, suggested that such a bulletin as might be issued by the proposed central office of in-formation should go to local Branch secretaries. A circular issued by the Sheffield Branch gave information on all points of interest to members.

A Dilemma in Education

DR. D. TRAIN, London, said that when one came to education one was faced with a dilemma: Did one teach from present experience or from the prospect of ten years hence? For the students' benefit one should teach for ten years hence, "plus a little on current information." One had to go on teaching the "same old basic principals." ples," but that left the students unfitted jobs they were going to take up professionally. Inevitably, employers of the new student "product" new grumbled because he seemed to know nothing except how to filter well. "You probably have a critical period when you have one of our students. We have thought about that also, and I have tried to check with other professions to see what they do to bring students upto-date with current practice. The only method is to bring the student out on to the job." When it came to training keeping up-to-date, the teacher was limited in what he could say because it quickly became boring, and if it became boring it was not absorbed.

MR. N. A. HERDMAN, Hoylake, said

that what the pharmacist really wanted

was technical information on ethical proprietaries. Manufacturers had information services for hospital and retail pharmacists. If they became friendly with a "brother" in manufacturing they could usually get at the He thought that manufacturers truth should take up the Society's Index. Recommending THE CHEMIST AND DRUG-GIST Guide to New Medicaments, he said that that also had to be pasted up on card. Mr. Herdman emphasised that the manufacturers gave retailers any information they could and, be-cause they had the time, space and staff, manufacturers filed their information correctly.

Mr. D. H. MADDOCK, Romford, said that no one had considered the prohibitive cost of running such a central office of information.

MR. T. D. WHITTET, London, appealed to manufacturers having new drugs tried out in hospitals to inform the hospital pharmacist and to approach him first, if only to mention that the drug was being used. He also asked manufacturers to get together to produce uniform-sized literature.

Mr. Tomski said he could not agree with Dr. Train that subjects taught out-

side pharmacy were boring.
MR. A. DUCKWORTH, Harrow, said that the Association of British Pharmaceutical Industry had recently recom-mended its members to issue literature conforming to the specifications drawn up by the British Standards Institution. That policy was being implemented as

MR. Tomski said that he had prepared his paper to stimulate them to think. He hoped that they all felt that the collection and dissemination of information was the responsibility of the

individual.

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PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

SCIENCE SESSIONS

(Continued from The Chemist and Druggist, September 15, p. 300)

DR. W. MITCHELL read the first paper to be taken on September 4. It was entitled:-

Chemical Assay of Cascara

A. A. J. FLUCK, WILLIAM MITCHELL AND S. A. WOOD

THERE is a need for a reliable assay of cascara preparations. The British Pharmacopæia standards for the dry extract are of little use in determining its quality and therapeutic value, and a study nas been made of the chemical assay of dry extract of cascara, B.P. The method of Fairbairn and Mahran has been found unreliable. Addition of hydrogen peroxide in hydrolysis causes partial destruction of anthraquinones, yet appears also to liberate additional anthraquinone-like material ad infinitum. Light petroleum effects a selective extraction of the aglycones, but the process is difficult to complete. A method involving acid hydrolysis, benzene extraction, and partition chromatography is described. The aglycones thus obtained were relatively pure, though the quantitative results were disappointing, and the method is not recommended as an assay process. Prolonged hydrolysis in the cold gave aglycones free from interfering matter, but again could not be used as a practicable assay method. The work has suggested other lines of approach that are now being investigated.

From Stafford Allen & Sons, Ltd., London, N.1.

Discussion THE CHAIRMAN asked whether the authors had used only one extract of cascara. Could they say whether the method gave certain results on re-

peated experiments?

Dr. F. HARTLEY, London, said it was a sad reproach that the Pharmacopæia included such a widely used prepara-tion as cascara tablets, but no reliable method of standardisation. What did Dr. Mitchell recommend should be done? It was the physiological potency of the extract that was of interest.

DR. J. FAIRBAIRN, London, said he had

obtained reasonably concurrent results with the B.P. method, but had found the final colour not as pure as it might be, and the method did not go to completion. There were three glycosides in cascara, one based on emodin, which was easily hydrolysed, little surviving in the extract; one based on chrysophanol, which was less easy to split and survived as the glycoside in the extract; and the third based on aloeemodin, which was difficult to hydrolyse, was the main glycoside in the bark and the extract, and was the cause of most of the trouble. He had found a method of hydrolysing aloeemodin by first coaxing out the interfering substance. By that new method he still found the crude drug much more active than the extract in proportion to the amount of glycoside.

He had not found any loss in pure aloe-emodin, and not much fading in colour, using the method of oxidation with caustic soda.

DR. D. C. GARRATT, Nottingham, said that, if samples of cascara extract were kept for any length of time, the chemical and assavs biological diverged. Why would not the Pharmacopœia Commission face the fact that the extract was not being standardised Why could not an active correctly? principle be isolated and used as a standard? A biological standard could be found which would correlate the activity of all available products.

DR. J. M. Rowson, London, said Dr. Mitchell appeared to have made a large bulk solution, removed the an-thraquinones, and applied an aliquot of that solution to hydrolysis, which had been repeated on more solu-tion after some time. He had then gone back and looked for free anthraquinones. Had he removed them by acid hydrolysis in the first place, and if so, had he done it by the method

he had already condemned?

MR. T. D. WHITTET, London, said four extraction methods were used at present for cascara (i.e., cold, heat, alcoholic and magnesium - oxide methods). He and his co-workers had prepared extracts by all those methods, and there was evidence of much loss of activity by all of them, but he would like to see the results summarised and

compared.

DR. J. B. STENLAKE, London, said he and co-workers had recently had some experience of hydrolysis of saponins and they had obtained a smoother and less acid solution using ethanol or

agueous ethanol.

Dr. MITCHELL, replying, said that, for simplicity, results on one extract only had been given, but a good many others had been tried. The result given was a single typical one. The first object was to find one assay that would give reproducible results, then to try and relate them to the biological results. Since writing the paper he and his co-workers had found a method of chemical assay that gave results correlating well with results on the bark. They hoped now to relate it to biological results. The material used was originally free from anthraquinones but after a period of standing in the cold more free aglycones appeared. free aglycones appeared, which could be extracted.. He was far from convinced that the active principles of cascara were all glycosides. There might not even be any glycosides.

DR. G. E. FOSTER read the next paper, which was entitled:-

> A Source of Error in Strychnine Assay

A. C. CAWS AND G. E. FOSTER IN the assay of strychnine salts by the standard procedure, a discrepancy has

been observed between the results obtained when the recovered alkaloid is weighed as strychnine and when it is titrated with standard acid. A chlorinecontaining reaction product, for which analytical data are given, has been isolated from chloroform solutions of strychnine. The formation of the chloro compound interferes with the standard assay of strychnine salts, and amendments to the standard assay procedure have been proposed with the object of eliminating the source of

From the Wellcome Chemical Works,

Dartford

Discussion

DR. D. C. GARRATT, Nottingham, asked the chairman's permission to mention nux vomica, to which there was no reference in the paper. In the nux vomica titration the empirical correction factor must have been on a weight basis, and he would like Dr. Foster's view on whether it was correct. Would it not be found that there was, perhaps, a balanced error?

DR. F. HARTLEY, London, said that the discrepancy noted in the paper had been experienced. It appeared to be explained by interaction between the chloroform and strychnine. To demonstrate the reaction it seemed necessary always to reflux with chloroform for some hours, and he was surprised that the interaction reported should have occurred in so short a time. Had Dr. Foster formed any idea of the rate of

DR. W. MITCHELL, London, pointed out that the volumetric method gave low results, and the gravimetric high, but neither was correct. Non-aqueous titration gave an accurate result, and any change in the standard assay should be in the direction of non-aqueous titration. In the assay of nux vomica the difficulty was to secure the material in fine enough powder. To those difficulties, it seemed, they must now add loss to chloroform-a cumulative loss. He would suggest using benzene in place of chloroform.

DR. A. H. BECKETT, Bromley, said he was pleased Dr. Foster was acknowledging that non-aqueous titration was not without its uses. He hoped the figure of 6.6 was a mistake, and that it should have been 6.03. He thought it was possible to come to some tenta-

tive ideas on formulation.

DR. G. BROWNLEE, London, said that if the pharmacology of Dr. Foster's compound was quite different from that of strychnine, a quaternary complex

appeared to be suggested.

DR. FOSTER replied. He said that work was in progress on nux vomica and might be the subject of another paper, but already difficulties were being experienced on account of brucine and other substances. It had now been found that leaving the solution in the cold gave much the same result as refluxing. The precipitate still separated out. He had no knowledge of the kinetics of the reaction. It was true that non-aqueous titration gave the right result, but because the correct factor for strychnine had been used. The nitrogen figure, "he had to confess," was correct. It had been repeatedly obtained, and for that reason alone he was justified in postponing a statement on the structure of the product. Work was being done on the pharmacology of the compound, but at present the substance was not behaving as expected.

The next paper, read by the author, was:—

Analgesic Activity in Alkyloxy-1phenylethylamines

A McCoubrey

THE complex pharmacological pattern characteristic of morphine, methadone and pethidine and their derivatives suggests that those drugs have some common property when in contact with living tissues. The only readily discernible chemical similarity is possession of a phenylalkylamine unit of structure, a feature of a large number of drugs devoid of morphine-like properties. An attempt to trace the postulated common factor has been made by considering the structural requirements for morphine-like activity in 1-(p-cyclohexyloxyphenyl) ethylamine. Experimental materials prepared were p-cyclohexyloxybenzylamine; N-ethyl-1-(p-cy-clohexyloxyphenyl ethylamine; 1-(p-cyclohexyloxyphenyl)-n-propylamine; and NN-dimethyl-1-(p-cyclohexyloxyphenyl) ethylamine. Their analgesic activity had been assayed and results had showed that mono- or dialkylation (Me, Et) of the amino group, or acetylation, gave inactive materials; replacement of the methyl group by hydrogen or ethyl abolished activity; hydroxyl at position 3 reduced activity. Alkyl groups (Me, Et,Prm) at the same position abolished activity, though depressant activity and toxicity increased; only cyclohexyl ethers were active. It had been shown, however, that moving the cyclohexyl ether group to the 3 position had no influence on activity. Every feature of the molecule, so far as examined, was therefore essential for activity. The suggestion is that analgesic activity is a property of molecules capable, under biological conditions, of extruding a vinylamine, which can be derived from an ethanamine structure associated with a strained carbon atom adjacent to a benzene nucleus.

From the Department of Biochemistry, Institute of Psychiatry (British Postgraduate Medical Federation), University of London, Maudsley Hospital, S.E.5.

Discussion

DR. A. H. BECKETT, London, said that though Dr. McCoubrey had said the degradations in question were foreign to the conception of organic chemistry, he had used chemical arguments. Yet his hypothesis was untenable on chemical grounds.

DR. W. MITCHELL, London, asked whether the analgesic action of morphine and similar compounds was

caused by the ethanamine fragment which Dr. McCoubrey claimed to have excluded. Did the remaining part of the molecule act simply as a carrier?

DR. N. J. HARPER, London, said Dr. McCoubrey had suggested that his concept was difficult to apply to some analgesics. How did he explain the analgesic actions of acetyl methadol, the reversed esters of pethidine, and of thebaine? In thebaine there was unsaturation between the carbons at 8 and 14, which labellise the nitrogen system to a certain extent. Was it possible that in the biological process there was a splitting of the labellised nitrogen ring, and the complex formed would not fit the receptor site involved in analgesic activity?

DR. G. BROWNLEE, London, said thebaine had a similar action to morphine and was visualised as fitting the same receptor site. In visualising the depressant action of morphine it must not be forgotten that morphine had also other actions, including a sti-

mulating one.

DR. McCOUBREY, replying, agreed that his hypothesis was a little far-fetched, but failed to see how the aspect of morphine-like action could be explained without assuming a metabolic activation. It was necessary to rely on chemical knowledge to attempt to account for biological degradations. The active fragment of the molecule was either a vinylamine or the ethanamine fragment suggested.

The next paper, which was in three parts, was read by Dr. Beckett. It

was entitled:-

Analgesics and their Antagonists: Some Steric and Chemical Considerations

I. Dissociation Constants of Some Tertiary Amines and Synthetic Analgesics; Conformations of Methadone-type Compounds.

A, H, BECKETT

THE dissociation constants of certain N-alkylated piperidines, morpholines, pyrrolidines and dialkylamines are discussed in terms of combined electrical and steric effects. Interactions of the basic group with other groups in methadone-type molecules are briefly outlined. Dissociation constants of several series of methadone-type compounds are recorded. Consideration is given to the effect upon those values of the conformation of the molecules and combined electrical and steric effects. Methadone-type molecules are shown to adopt a conformation which permits their ready association with the "analgesic receptor site."

II. Influence of the Physico-chemical the Activity of Methadone Thiambutene-type Compounds

A. H. BECKETT, A. F. CASY, N. J. HARPER and P. M. PHILLIPS

THE analgesic activity of several series of methadone-type compounds is shown to decrease upon the increase in the "effective width" of the basic group. The steric requirements about the anionic site of the analgesic receptor are discussed. Dissociation con-

stants and analgesic activities of a series of thiambutene-type compounds are presented. Evidence is given for their probable conformation in aqueous solution. Their activities are shown to decrease with increase in the "effective width" of their basic groups. The preparation of certain thiambutene-type analgesics is described. A method is described for the determination of dissociation constants in aqueous solution of sparingly water-soluble bases.

III. Influence of the Basic Group on the Biological Response

A. H. BECKETT, A. F. CASY and N. J. HARPER

THE mode of action of analgesic antagonists is considered in terms of competition with analgesics for the analgesic receptor surface. The hypothesis is advanced that analgesics and their antagonists undergo a similar chemical reaction subsequent to adsorption, the rate constant for the former being much greater than that for the latter. Oxidative dealkylation to produce nor-compounds is presumed to be the first step in the reaction sequence leading to analgesia. Nor-morphine has been shown to have a greater analgesic activity than morphine upon intracisternal injection into mice.

From the School of Pharmacy, Chelsea Polytechnic, London, S.W.3.

Discussion

DR. A. McCOUBREY, London, agreed that some activation of the morphine occurred. He thought that attempts to apply results obtained with liver, which the authors had used, to considerations of biological activity were stretching things a little, though he admitted that to use brain would present difficulties.

DR. J. B. STENLAKE, Glasgow, agreed with the authors' conclusions, but criticised their use of infra-red measurements to supplement the findings, since presumably the infra-red measurements were made with non-aqueous media. Their value, therefore, was problematical. He suggested the use of mixed solvents. He also asked if any information could be given on the dissociation constants for *nor*morphine.

DR. BECKETT, in reply, said that correlation with analgesic activity was not to be expected. It was true that there was danger in extrapolating the results from demethylation, but enzyme systems in the demethylation of compounds were present in central nervous tissue. Morphine substitution compounds ranged from active analgesics to analgesic antagonists, but even the analgesic antagonists had some analgesic activity. He agreed with Dr. Stenlake that infra-red measurements were not an argument in themselves, but when, linked with other results, they gave some sort of support, they were so that extent justified. He agreed with a suggestion to use mixed vents, and said a programme on those lines was planned. He could give no figure for the analgesic action of normorphine, but work would be done on that subject.

The next paper was read by Mr. L. Brealey, It was:

Determination of Riboflavine in **Pharmaceutical Products**

L Brealey and D. A. ELVIDGE

A SPECTROPHOTOMETRIC method for the determination of riboflavine in pharmaceutical materials is described. A number of tablets and solids were examined by a spectrophotometric and by a fluorimetric methods. Tablet, capsule and liquid vitamin preparations containing added dyes were examined by a spectrophotometric method after reduction with dithionite. The spectrophotometric method described has a number of advantages over present official methods. It is more rapid than the microbiological method and more specific than most fluorimetric methods. It is also more flexible than fluorimetric procedures in that the pH range over which it is applicable is wide. To prepare a standard riboflavine solution for each determination is not necessary. Once the adsorption values have been determined for the working conditions they can be applied with only occasional checks, because extinction readings are absolute and not comparative. The results obtained on samples of yeast are in general sufficiently close to those of the microbiological method to suggest that the spectrophotometric procedure could in due course replace the microbiological method in the B.P.C. The principal shortcoming of the method lies in its poorer sensitivity than the fluorimetric technique, but that is not important in the assay of pharmaceutical products.

From the Physical Assay Division, Standards Department, Boots Pure Drug Co., Ltd.

Discussion

DR. G. E. FOSTER, Dartford, asked whether the authors had applied their

method to the assay of malt extract.
Dr. F. Wokes, King's Langley, said the authors had said that the fluorimetric method was falling into some disrepute, because of the lack of uniformity of commercially available fluorimeters, but their results suggested that the fluorimetric method was as accurate as the proposed spectrophotometric one.

Mr. S. G. E. STEVENS, London, said that riboflavine was difficult to determine in animal feeding substances because materials were present which interfered with fluorimetric determinations. Had the authors found similar trouble with any of their pharmaceuticals, and had they performed any recovery experiments?

MR. BREALEY, replying, said that the authors had not used the suggested method on malt extract. It was difficult to obtain a sufficiently concentrated solution of materials, low in riboflavine content, for spectrophotometric estimation. The fluorimetric results obtained were good because the authors had used an instrument they had built themselves, and which was more sensitive than any commercially-available apparatus. Recovery experiments had not been done because there were doubts as to their effectiveness, and as the materials used were obtained direct from the factory that type of experiment had not appeared worth doing.

The next paper, which was read by DR. WOKES, was on:-

Vitamin-B Stability

F. Wokes and F. W. Norris

STORAGE experiments extending over three to eight years have been carried out on representative samples of vacuum-dried dietetic specialities; bakery products; vitamin concentrates with a basis of malt extract; and multi-vitamin capsules in which B vitamins have been claimed. Changes in the contents of those vitamins have been followed by physiochemical and microbiological assays. The stability of the vitamins has been found to be affected by exposure to air as well as by temperature and relative humidity. For the four types of products examined the main precautions to be taken during storage involve avoidance of exposure to atmospheric conditions, especially in hot, humid climates. When riboflavine or other photolabile vitamin is present, protection against the action of light is also desirable. Maximum etc. of light is also desirable. Maximum stability is best achieved by storing the products in air-tight containers in a cool, dry, dark place. If the containers are opened and some of the contents removed, losses of B vitamins may set in after sufficient atmospheric moisture has been absorbed. The amount of air space above the contents may then be-come important. In liquid multi-vitamin products vitamin B₁ is much less stable than in dry products. In vitamin concentrates with a malt-extract basis, storage in a cool dry place is advocated to maintain the vitamin content during a reasonable shelf life (1-2 years, depending on the "overages" provided). In multi-vitamin capsules, the stability of the vitamins may be affected by light as well as by exposure to high temperatures and relative humidity, and by interaction with other constituents. When precautions are taken to avoid those factors, the B vitamins in the capsules should not undergo significant loss dur-ing a reasonable shelf life.

From the Ovaltine Research Laboratories, King's Langley, Herts, and the Department of Applied Biochemistry, University of Birmingham,

Dr. Foster said that in his experience of B₁ assay there were some conditions in which a decrease of B1 content appeared. Was it possible that decomposition products produced impurities that quenched the fluorescence? Though the assay might show a deficiency, the vitamin might in those condi-tions still be there. It was a serious thing if the method itself was unreliable.

GARRATT thought ought to be entitled "Stability in Certain Vitamin-B Products." He would hesitate to use the results as general findings, his experience being that the B vitamins did not remain stable over the author's times. He asked if the authors had had any experience of their tests applied to normal vitamin products.

MR. E. H. B. SELLWOOD, London, asked if Dr. Wokes had any experience of the stability of vitamins in saltsfor example, aneurine chloride and nitrate and riboflavine phosphate.

Mr. Ashwin, Dorking, asked if any assays of pantothenic acid had been done after storage at higher temperatures. Did the products include multivitamin preparations containing B1 and

DR. Wokes, before replying, read extracts from a letter from Dr. Campbell, Canada, who agreed that satisfactory storage conditions were necessary to ensure that label claims were met, but thought that a more important factor was the elimination of delay in distribution. The simplest way of doing that was by labelling with an expiry date. An uncoded date would have the advantage that all would know if the normal shelf life had been passed.

Giving his own comments, Dr. Wokes said the quenching referred to by Dr Foster had been partly dealt with in a table in his paper. A factor had been suggested. Alternatively, solutions could be diluted, raising recovery to nearly 100 per cent. He had earlier described a sensitive fluorimeter. Dr. Garratt's suggested correction he accepted. He had no data on salts except thiamine as hydrochloride. He was aware of the suggestion that they were more stable. On pantothenic acid and storage he had no data. B₁₂ was affected by B₁ and C in liquid preparations, but so far his tests had been on solid or oily products, the data extending over only eighteen months.

MR. J. I. PHILLIPS read the next paper, which was:-

Determination of Benactyzine

J. P. JEFFERIES and J. I. PHILLIPS

ADEQUATE resistance of benactyzine hydrochloride to hydrolysis is of importance in the preparation of tablets and solutions for injection, as neither the benzilic acid nor the ester fragments of the molecule show any activity. Analytical methods must, therefore, be capable of distinguishing benactyzine from the benzilic acid and 2-diethylaminoethanol produced on hydrolysis.

Infra-red and ultra-violet absorption spectra are presented for benactyzine hydrochloride. An assay for benacty-zine is proposed based on complete hydrolysis of the benactyzine with strong sodium hydroxide, with sub-sequent steam distillation of the produced diethylaminoethanol and with standard titration acid. Ultra-violet spectroscopic methods have been successfully applied to determination of benactyzine hydrochloride in its pharmaceutical preparations (solutions and tablets).

Results are presented of stability tests on aqueous solutions and tablets of benactyzine hydrochloride. From Glaxo Laboratories, Ltd., Green-

ford, Middlesex.

Discussion

MR. L. BREALEY, Nottingham, said that he and his co-workers, using a similar method on benactyzine tablets, had run into one difficulty. At around the extinction point of benactyzine, they could not get rid of interference due to high irrelevant absorption of the blanks, and they had had to use a 3·3 point correction method on their solutions. What were the authors' findings on that matter and what special precautions had they taken?

DR. W. MITCHELL, London, asked what was the pH of a simple aqueous

solution of benactyzine?

DR. G. E. FOSTER, Dartford, asked whether, for distilling the amine over, the authors had tried straight distillation by putting in a certain amount of

water and distilling almost to dryness.

MR. C. A. JOHNSON, Nottingham, said it was unwise, with hydrolysis-prone material, to use a method based on hydrolysis for determination. For routine purposes, the material titrated quite well in non-aqueous solution. The authors had found the melting point to be 182°, but on repeated attempts he had not been able to achieve a melting-point higher than 180°.

MR. PHILLIPS, replying, said that when the method was first used they had

experienced difficulty with high blanks, but they had found that by using one set of separators for that determination only, they could remove the difficulty of high irrelevant absorption. They had not found it necessary to use the 3·3 point correction. Titration in non-aqueous solution would not be sufficiently accurate for the purpose. They had not tried distillation without steam. They had accepted the melting point of 182° because it appeared sufficiently characteristic of the compound.

CONFERENCE PERSONALITIES

MISS MARGARET L, FRITH, who was the co-author of a paper on paper chromatographic detection of new constituents of *Digitalis lanata*, qualified as a pharmacist in New South Wales in 1951 and then joined the staff of the pharmacy department of the University of Sydney, first as a teaching Fellow and later as a temporary lecturer. She resigned from the University to get married in 1955, She has published research papers dealing with the evaluation of preservatives in eye drops, and with the paper chromatography of cardiac glycosides.

MISS BARBARA J. ALDRICH, coauthor of a paper with Miss Frith and Dr. Wright, was educated at Sydney Girls' High School and the University of Sydney. She qualified as a pharmacist in New South Wales in 1955, then joined the staff of the pharmacy department of the University of Sydney as a teaching Fellow. Miss Aldrich has carried out research work on paper chromatography of cardiac glycosides and also on problems of practical pharmaceutics.

MR. P. M. PHILLIPS, B.Pharm., who is the co-author of a paper on



analgesics and their antagonists, was educated at Harrow County School and Chelsea Polytechnic. After national service with the R.A.F. as a pilot officer, he graduated B.Pharm. with second class honours from Chelsea Polytechnic in 1955.

He is now engaged on physico-chemical aspects of analgesics, under Dr. A. H. Beckett, at Chelsea Polytechnic, for the Ph.D. degree. His interests are electronic engineering, foreign languages and music

MR. E. H. B. SELLWOOD, B.Pharm., F.P.S., A.R.I.C., who is the author of a paper on the determination of the digitoxin content of Digitalis purpurea, is a member of the research staff of Allen & Hanburys, Ltd. He obtained his B.Pharm. degree from Brighton Technical College in 1939, was registered as a pharmaceutical chemist in 1940, and after retail experience served with the Royal Air Force, 1941–46, during which time he travelled widely in Egypt, Palestine and Syria. He re-

turned to retail pharmacy before joining Messrs. A. & H. in 1947. He was elected A.R.I.C. in 1952.

MR. F. W. ADAMS, the Pharmaceutical Society's secretary and registrar,

was the author of the first of the papers presented at the professional sessions of the Conference, Mr. Adams was born in 1899 in Leighton Buzzard, Bedford-shire. He served his apprenticeship with Mr. H. E. Herington in that town, interrupted by



war service in the Royal Naval Volunteer Reserve. Subsequently he served as an improver with Mr. Herbert Dixon. Russell Gardens, Kensington, and Messrs. Alsop & Quiller, Sloane Street. He studied at the School of Pharmacy of the Pharmaceutical Society, 1920–22, and was demonstrator in chemistry in the School, 1922–27. He was appointed assistant secretary of the Society in 1927; deputy secretary in 1942; and secretary and registrar in 1949.

DR. A. M. COOK, who contributed a paper on the reproducibility of extinction time estimates, has been since 1949 lecturer in pharmaccutics at the School of Pharmacy, University of London, where he is in charge of the microbiological section. He entered pharmacy as an apprentice to Mr. G. Oglethorpe, 87 Victoria Road, Darlington, 1933-36, took his Intermediate B.Pharm. at Nottingham University College, but transferred to London for the final degree course, 1937-39. Halfway through the course he qualified as a chemist and druggist and in 1939 passed the B. Pharm, and Pharmaceutical Chemist examinations and was granted a Burroughs research scholarship. At Cardiff, 1939-40, he scholarship. At Carditt, 1939-40, ne was engaged in pharmaceutical chemistry research under Professor Linnell. From 1941 to 1946 he served with the Royal Air Force, and in 1946 was appointed assistant lecturer in pharmaceutics at the School of Pharmacy, University of London. From 1947 to 1949 he was a Ph.D. research student, gaining his Doctorate in pharmaceutics at the conclusion of his studies for a thesis on a turbidimetric method of evaluating bactericides. Dr. Cook has been since 1945 a Fellow of the Royal

Meteorological Society and since 1950 of the Royal Institute of Chemistry. In 1953 he gained a postgraduate diploma in bacteriology. With the University of London he has been since 1951 a recognised teacher and since 1953 an examiner for the B.Pharm. examination. In 1954 he was appointed an examiner in pharmaceutics to the Pharmaceutical Society. His research publications include: "A Turbidimetric Method of Evaluating Bactericidal Action' I, J. Pharm. Pharmacol., 1950. 2. 217: Part II, ibid, 311; Part III, ibid, 565); "Evaluation of Bactericidal Activity of Phenol " (Acta. Pharm. Internat., 1950. 1.257); "An Improved Pipette for Measuring Small Volumes" (J. Pharm. Pharmacol., 1953.5.14); "Engineering and Microbiological Processes" (Chem. 1954.1144); "Compressive Ind., 1954. 1.114): "Comparative Methods of Evaluating Antibacterial Substances" (Part I, J. Pharm. Pharmacol., 1954. 6.629; Part II, jbid. 638); "Bacterial Suspensions in Bactericide Evaluation" (J. Pharm. Pharmacol., 1955.7.224); "Bacterial Activity of Soap Phenol Mixtures" (J. Pharm. Pharma-col., 1956.8.425); "Reproducibility of Extinction Time Estimates" (J. Pharm. Pharmacol., 1956.8.266).

MR. C. F. ABBOTT, B.Pharm., F.P.S., B.Sc., A.R.I.C., who was the co-author of a paper on the resistance of crystalline substances to gas sterilisation, is research pharmacist in charge of pharmaceutical formulation development at Distillers Co. (Biochemicals), Ltd. After serving a retail apprenticeship, Mr. Abbott studied at Bradford Technical College for the external B.Pharm. degree of London University. which he obtained in 1945, and became registered shortly afterwards as a pharmaceutical chemist. He spent the next three years in military service with the Royal Air Force, returning in 1948 to Bradford Technical College, from which he obtained his B.Sc. honours degree in chemistry in 1949. He was shortly afterwards elected on Associate of the Royal Institute of Chemistry, From 1949 to 1955 he was employed by Imperial Chemical (Pharmaceuticals), Ltd., initially as research analyst, but more recently he has been engaged on the formulation aspects of new pharmaceutical products and processes.

A RESOLUTION urging that local authorities should be enabled to provide chiropody as part of the National Health Service was passed by the Association of Municipal Corporations conferring at Brighton on September 18.

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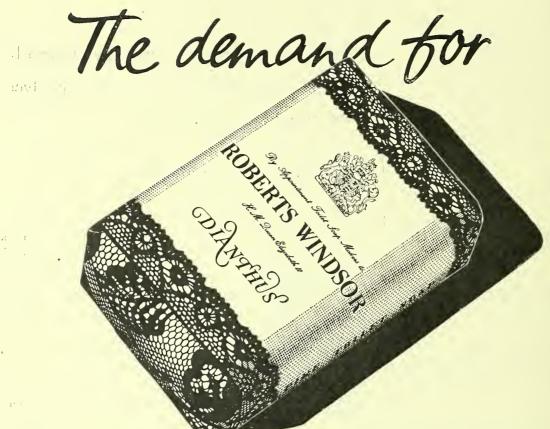
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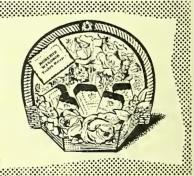
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TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, SEPTEMBER 19: The scarcity of many commodities in the CRUDE DRUGS market persisted during the week. Some supplies of CANADA BALSAM were sold at 25s. per 1b., and a further parcel which arrived later was being offered at sixpence under that figure. Despite anticipated higher freight charges (some are already in effect), which must add to the cost of replacements, there was no panic buying of spot goods. However, LIQUORICE natural root was in good demand, and the market appeared bare of all except Persian material

HYDRASTIS was firmer, in sympathy with considerably advanced prices in the United States. CASCARA SAGRADA is now short on the spot, with holders asking 25s. per cwt. more, and shipment rates moved up by 10s. per cwt. Among Aromatic Seeds, Coriander was firm, with little offering on the spot, such stocks as are available being held by second-hand sellers. Australian and Jamaican Honey were both 2s. 6d. per cwt. dearer.

An arrangement seems to have been made between Brazilian and Peruvian producers of Bois De ROSE OIL to prevent export sales of the oil under a certain figure. That has naturally had a hardening effect on the spot position and the price of spot oil went up by 1s. 6d. per 1b. Elsewhere among ESSENTIAL OILS forward prices of LEMONGRASS were threepence per 1b. dearer and Chinese PEPPERMINT one shilling more than in the previous week. PALMAROSA, on the other hand, was one shilling per 1b. lower for shipment. CHENOPODIUM rose fairly sharply at origin; the cost of replacement at the new rate would be around 42s., against 31s. recently. Reports from France suggest that the LAVENDER OIL crop will be about 25 per cent. below that of 1955 and shippers are asking correspondingly high prices, though no business has been reported at those levels.

Pharmaceutical Chemicals

Ammonium acetate. — 1-cwt. lots of B.P.C. are quoted at 3s, 9d, per lb,

Ammonium bicarbonate. — The B.P. powder is £50 5s, per ton; carbonate is £81 10s, for lump and £85 10s, for powder, all delivered terms,

Borax.—Prices for B.P. grade for quantities of 1 ton and upwards, as are follows:—Granular, £50; crystals, £52 10s.; powder, £53 10s.; extra fine powder, £54 10s. per ton. Prices of commercial range from £40 to £45 10s, per ton, as to type and packing. Dehydrated borax is £61 10s. per ton in paper-lined hessian bags or £60 10s. in paper bags; carriage paid in Great Britain. Usual surcharges for smaller quantities. All basic prices are being increased by £1 per ton on October 1.

Borlc Acid. — Prices for B.P. grade in

Boric acid. — Prices for B.P. grade in quantities of 1 ton and upwards are as follows: Granular, £83; crystal, £90; powder, £87 10s.; extra-fine powder, £89 10s. per ton, in 1-cwt. lined hessian bags carriage paid in Great Britain. Surcharges for smaller quantities: Less than 1 ton but not less than 5 cwt., 1s. per cwt., 3 cwt., 2s.; 1 cwt., 3s, All basic prices are being increased by £1 per ton on October 1.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to

quantity. Succinic acid is from 10s, 6d, to 12s, 3d, per lb.

CARBROMAL. — B.P.C. is 21s. per lb. delivered in returnable packing.

CHLOROXYLENOL.—B.P. quality is 5s. 9d. per lb. for 1-cwt. lots, and 5s. 7d. for 10-cwt.

CITRIC ACID.—Quotations (per cwt.) for domestic material are 205s, for 1–4 cwt. lots and 200s, for 5-cwt. lots.

CREOSOTE.—B.P. quality ex beechwood, is from 6s. 9d. to 7s. 6d. per lb.

EPHEDRINE.—In 100-oz, lots alkaloid is nominally 7s. per oz.; hydrochloride and sulphate, 4s. 3d. per oz.

ERGOTOXINE ETHANESULPHONATE. — Price per gm. for B.P.C. (1949) is: 1 gm., 168s. 9d.; 10 gm., 155s. 3d.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S., and SOLVENT, 5-cwt., 2s. 5d.; 10-cwt., 2s. 4d. ANÆSTHETIC, B.P., 5-cwt., 3s. 10d.; 10-cwt., 3s. 9d. In drums prices are 4d. per lb. less than above.

FERROUS GLUCONATE.—B.P.C. is 6s. 6d. per lb. in 1-cwt. lots.

FORMALDEHYDE. — B.P. solution in 1-4 drum lots is £39 15s, per ton; 5 drum lots are £38 15s, per ton, all including free drums.

HEXAMINE,—B.P. is 1s, 11½d, per lb. for 1-ton lots, delivered in 1-cwt. kegs (1s, 11d, in paper bags). Technical is threepence per lb. under those rates.

HYDRAZINE HYDRATE. — Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the $2\frac{1}{2}$ per cent.

HYDROCYANIC ACID. — Dilute B.P.C. is from 1s. 5d. to 2s. per lb., as to quantity; Scheeles is from 1s. 9d. to 2s. 4d.

HYDROQUINONE.—Quotations for 1-cwt. lots are 10s, 6d, per lb. For smaller quantities, viz., 28-lb., 10s. 9d.; 14-lb., 11s. 6d.; 7-lb., 12s.

Magnesium hydroxide.—Makers' prices for B.P.C. are, 1-cwt. lots, 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

Physostigmine.—Current rates per oz. are:—Salicylate, 1-oz., 282s.; 4-oz., 276s, Sulphate, 358s, and 352s. Alkaloid, 414s, and 408s., respectively.

Potassium nitrate. — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial. 90s.

Potassium Permanganate. — Rate for B.P. material for 1-cwt. lots is 1s. 9d. per lb., and for technical, 183s. 6d. per cwt.

Pyrogallic acid. — Pure crystals are 18s. per lb. in 1-cwt. lots.

RESERPINE. — Price is from 50s, per gm. for domestic material.

SALOL.—Quotations for B.P.C. are about 9s. per lb. for 1-cwt. lots.

SEMICARBAZIDE HYDROCHLORIDE.—Techni-

cal grade is 19s, per lb. for 1-cwt. lots.

SODIUM ACETATE.—B.P.C. in 28-lb. lots is 2s. 1½d. per lb.; 1-cwt., 1s. 10d. per

Sodium chloride. — Re-crystallised is 30s, per cwt.

SODIUM METABISULPHITE. — Granular in 1-ton lots is from £46 2s, 6d, to £50 7s, 6d, per ton according to packing.

SODIUM PERCARBONATE. — Prices (per cwt.) about 166s. 9d. (bags, 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. — B.P. powder is 125s. per cwt.

THYMOL. — In 7-lb. lots the price is 15s, 9d. per lb.; 28 lb., 14s, 6d.

Industrial Chemicals

ACETALDEHYDE.—The 100 per cent. is £142 per ton.

ACETATES.—Prices (per cwt.) for drum lots are as follows:— AMYL (technical), 250s, and B.S.S., 252s. BUTYL (B.S. 551: 1950), 171s.; ETHYL (B.S. 553: 1950), 141s.; ISOPROPYL, 140s.

ACETONE,—Drum lots are quoted at £90 per ton.

BENZOLE. — Thiophene-free is from 9s. 0½d. per gall. for one 50-gall. barrel and pure, 6s. 0½d. per gall. for similar lots.

N-BUTYL ALCOHOL.—2-ton lots are quoted at £159 per ton and one-drum lots at £163 per ton. Secondary is £135 and £139. All in one delivery.

Carbon Tetrachloride, B.P.—1-2 carboy lots are £124 per ton. Technical, in 40-gall, drums, in less than 1-ton lots, is £81 per ton; 1 ton and under 2 tons, £79 10s.; 2 tons and under 4 tons, £79; 4 tons and upwards, £78.

DIMETHYL ACETATE. — Drum lots are quoted at 163s. per cwt.

ISOPROPYL ALCOHOL.—Standard grade is £80 10s. per ton (5s. $7\frac{3}{4}$ d. per gall.) in 10-ton lots. Essence grade is from 16s. 3d. to 19s. per gall., as to quantity.

METHYL ETHYL KETONE. — One-ton lots are quoted at £135 per ton.

METHYL ISOBUTYL CARBINOL.—Minimum price (10-ton lots in one delivery) is £135 per ton.

METHYL ISOBUTYL KETONE. — One-ton lots are $\pounds 161$ per ton with usual differentials for smaller quantities.

tals for smaller quantities.

Naphthalene. — Home market prices (per ton for 4-ton lots at one time) are as follows:—CRUDE WHIZZED, c.p. 74-77-5° C., £25 7s. 6d, to £30 17s. 6d., according to the crystallising point, ex works; HOT-PRESSED, minimum c.p. 77-6° C., £42 ex makers' works; CRYSTALS from £61 7s. 6d. to £63 17s. 6d., delivered; BALL and FLAKE, £69 17s. 6d. to £72 8s. 6d. delivered. The approximate export prices (f.o.b.) for 25-ton lots are from £42 to £46 for the crude whizzed; £50 to £52 for hot-pressed, while crystals are £67 10s. and ball and flake both £76 per ton, including bags.

PHTHALATES.—Prices (per lb.) for drum lots are as follows:—DIAMYL, 3s, 3d.; DIBUTYL, 2s, 1½d.; DI-ISOBUTYL, 1s, 11d.; DIETHYL (normal grade), 2s, 1d.; (perfumery grade), 2s, 6¼d.; DIMETHYL, 1s, 10¾d.

STEARATES.—Prices for minimum 1-ton lots are now as follows:—ALUMINIUM (all grades), 250s. 6d. per cwt.; CALCIUM (precipitated), 228s. 10d.; LEAD (30 per cent.) 232s. 6d.; Magnesium (standard), 262s. and (superfine), 292s.; ZINC, B.P., 283s.

TITANIUM DIOXIDE. — Anatase is £154 per ton and rutile from £164 to £172 as to grade.

Crude Drugs

ACONITE. — Spot supplies of Spanish napellus are 3s. 9d. per lb., duty paid.

AGAR.—Kobé No. 1 is from 12s. 6d. per lb., duty paid; for shipment, 11s. 3d., c.i.f.

ALOES. — Prime Cape for shipment is valued at 330s. per cwt., c.i.f.; spot, 345s. Curaçao, 345s., spot and 340s., c.i.f.

ANISEED (STAR).—Chinese is 125s, per cwt., c.i.f., for shipment. Spot supplies (if available), 135s.

Antimony. — English 99.6 per cent. is £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:—CANADA: Spot offered at 24s. 6d. COPAIBA, 7s. 9d. to 11s., duty paid. PERU, 10s., duty paid, TOLU (genuine as imported) is 27s. 6d. nominal; B.P. is 17s. 6d., spot.

BELLADONNA. — LEAVES are 2s. 6d. per lb. on the spot and c.i.f. Root, 1s. 10d.

BENZOIN,—Sumatra block on the spot is from £25 to £30 per cwt. No. 1 for shipment is £23 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BUCHU.—Spot supplies are about 7s. 3d. per lb.

CARDAMOMS.—Aleppy greens for prompt shipment are 14s. 6d. per lb., c.i.f., with new-crop, September-October at 13s. 6d., c.i.f. Spot is 14s. 6d.

CASCARA SAGRADA.—American 1955 peel is from 300s. to 310s. per cwt., duty paid. Shipment is about 275s., c.i.f.

CHILLIES. — Mombasa, spot 265s. per cwt., 255s., c.i.f.

COLOCYNTH PULP. — Spot offers are 4s. 6d. per lb., duty paid.

DIGITALIS LEAF.—Purpurea is offered at 1s. 3d. per lb., c.i.f.

ERGOT. — Portuguese old-crop is 7s. per lb., c.i.f., for prompt shipment and 8s., spot; East European, 4s., spot, and Hungarian, 8s. 6d., spot.

GINGER.—African on the spot is 245s. per cwt., with September shipment at 230s., c.i.f. Jamaican No. 3, 605s. per cwt., spot; no shipment offers.

HONEY. — Australian light-amber is 147s. 6d. and medium-amber, 142s, 6d.; Argentine, 145s.; Jamaican, 147s. 6d. to 152s, 6d., all per cwt., on the spot.

HYDRASTIS.—Root is nominally 26s, per lb. on the spot.

IPECACUANHA. — (Per lb.), Colombian, 43s. 6d., spot, and 41s., c.i.f. Matto Grosso, 42s. 6d., spot, and 40s., c.i.f. Nicaraguan, spot, unobtainable; shipment firm at 57s. 6d., c.i.f.

KARAYA.—No. 1 gum on the spot is now quoted at 285s, per cwt., and No. 2 at 235s.

Kola NUTS. — Jamaican are offered at about 8d. per lb., spot, and 6½d., c.i.f. African is 5½d. spot.

LIQUORICE. — Natural root: Persian, 40s. per cwt. Anatolian and Russian not quoted. Block juice is 200s. per cwt. for the Anatolian and 185s. for Chinese and British on the spot. Italian stick from 310s. to 476s. per cwt., duty paid.

LOBELIA HERB. — Spot material is 11s. per 1b. September shipment, 9s. 6d., c.i.f. LYCOPODIUM. — Supplies of Russian triple-sifted are 7s. 3d. per 1b. in bond.

MENTHOL. — Chinese is 50s, per lb. duty paid. September shipment, 45s, 6d., c.i.f. Brazilian, spot, 45s., duty paid.

MERCURY.—Per flask (76-lb.) £83 10s, on the spot.

MYRRH. — Selected sorts are unobtainable on the spot.

Papain. — Firm. Spot value of East African is 28s, per lb. for grade 1.

PEPPER.—White Sarawak is 2s. 8d. per lb. on the spot, with shipment about 2s. 6½d., c.i.f. Black Sarawak is offering

on the spot at 1s. 11d. per 1b.; September shipment, 1s. 9½d., c.i.f. Black Malabar, 270s. per cwt. on the spot; September shipment, 245s., c.i.f.

QUILLAIA. — Spot offers of bark are about 205s, per cwt, with shipment. 185s., c.i.f.

RHUBARB.—Quotations for Chinese are from 6s. 6d. to 10s. 6d. per lb., as to quality.

SARSAPARILLA.—Jamaican native red on the spot is 3s. 3d. per lb., and for shipment, 2s. 10d., c.i.f.

ment, 2s. 10d., c.i.f.

SEEDS. — (Per cwt.). Anise.—Tunisian, 210s., in bond; Spanish, 245s., duty paid. Caraway. — Dutch are dearer at 150s., duty paid. Celery. — Unchanged. Indian is offered at 142s. 6d. on the spot. Coriander. — Firm. Moroccan, nominally 100s., duty paid; Rumanian, 67s. 6d. to 70s., duty paid; Rumanian, 67s. 6d. to 70s., duty paid. CUMIN.—Steady. Spot, Cyprian, 130s. (paid); Moroccan, 135s., duty paid and Iranian, 125s., duty paid. Dill. — Unchanged. Indian 65s., spot. FENNEL. — Indian quoted at 95s., spot. FENNEREK. — Indian, 67s. 6d.; Moroccan, 67s. 6d., duty paid, both spot London. MUSTARD. — English 60s. to 75s., according to quality.

SHELLAC. — F.O.T.N., 325s. per cwt.; F.O. No. 1, 345s.; fine orange, 360s. to 4103.

SLIPPERY ELM. — Grinding quality bark is 2s. 6d. per lb.

SQUILL.—White is offered on the spot at 57s, to 62s, 6d.

STRAMONIUM. — Indian LEAVES are 70s. per cwt., and European 80s. on the spot.

STROPHANTHUS. — Kombé on the spot is 6s, 9d, per lb, for the 100 per cent.; Gratus is 12s. Both nominal,

Tonquin Beans, — Para frosted are cleared on the spot but Trinidad are offered at 8s. per lb.

TRAGACANTH.—No. 1 ribbon is £170 to £175 per cwt.; No. 2, £140 to £145.

TURMERIC. — Madras finger on the spot is 90s, per cwt, with September-October shipment quoted at 85s., c.i.f.

Valerian Root.—Indian on the spot is 140s. per cwt. Dutch, 182s., c.i.f.

Vanillin.—Rates (per lb.) are now.— 5-cwt. lots, 27s. 6d.; 1-cwt., 27s. 9d.; 56-lb., 28s.; smaller quantities, 28s. 3d.

Waxes. — (Per cwt.). BEES' — Dar-es-Salaam, September shipment, 635s., c.i.f., spot, 625s.; Sudanese, 600s, and 525s., c.i.f.; Abyssinian, spot, 600s., duty paid, shipment, 527s., c.i.f. Candellilla. — Shipment, 550s. per cwt., landed; spot is 550s. Carnauba. — Fatty grey, spot, 570s. per cwt.; for shipment, 565s., c.i.f. Prime yellow, spot, 1,320s.; for September—October shipment, 1,135s., c.i.f.

WITCH HAZEL LEAVES. — Spot supplies are 2s. 3d. per lb.; September shipment, 2s. 1d., c.i.f.

Essential and Expressed Oils

AMBER. — Rectified on the spot quoted at from 1s. 6d. per lb.

ANISE.—Chinese, 14s, 3d, per lb., spot, 13s, 3d., c.i.f.

Angelica. — From seed, 285s. per lb. From root, 540s.

Bois De Rose.—Brazilian is 26s, 6d. per lb. on the spot and 25s, 9d., c.i.f.

CHENOPODIUM. — Shipment rates have advanced. Nominal value 42s. per lb.

CINNAMON. — From quillings, Englishdistilled is quoted at 30s. per oz. Other B.P. oils available down to 90s. per lb. Ceylon leaf, crude, 14s, 6d.; rectified, 27s. 6d. per lb., spot.

CLOVE.—Madagascar leaf is 8s, 10d. per lb., duty paid and 7s, 9d., c.i.f., for shipment. Rectified 87–88 per cent., 12s. 6d.; distilled bud oil, English, 35s.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are from 35s. per lb.

FENNEL.—Spanish sweet on the spot is quoted from 12s. per lb. with Russian at 18s. 6d.

GARLIC.—English is 55s. per oz., on the spot.

HYDNOCARPUS. — Spot is about 2s. 2d. per lb.

JUNIPER BERRY. — Czechoslovakian oil (B.P.C.), 15s. 6d. per lb. and Jugo-Slavian. 14s. on the spot. English-distilled is 155s.

LAVENDER. — French shippers asking from 80s. to 120s, per lb. for best new-crop oil.

LAVENDER SPIKE.—Firm, Spanish is offered from 14s, 6d. to 15s. per lb. on the spot.

LEMON.—Prices of B.P. oil (4 per cent.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 25s, and 40s, per lb. Californian, 28s, 6d, to 36s, 4d., c.i.f., as to quality, subject to licence.

LEMONGRASS. — Spot is 11s, 3d, to 11s, 6d, per lb.; September-October shipment, 10s, 6d., c.i.f.

NUTMEG.—English-distilled is nominally 120s. per lb.; imported, 72s. 6d.

ORANGE.—Spot quotations of sweet oil include Floridan at 3s, 11d, per lb.; Californian, 5s. 6d.; West Indian, 7s. 6d.; South African, 7s. 6d. For shipment, proprietary brand Californian sweet is 6s. 1½d., c.i.f., and cold-pressed, U.S.P., 9s. 4d., c.i.f. Terpeneless is 200s. per lb, spot, and bitter. 20s. per lb.

Ofto of Rose. — Turkish is £250 per kilo.

PALMAROSA. — East Indian, 57s. 6d., spot; 53s., c.i.f.

PEPPERMINT.—Arvensis: Chinese is 30s, per lb. on the spot and 29s., c.i.f. Brazilian, 23s. spot, and 21s. 6d., c.i.f. Formosan, 14s. 9d., c.i.f. Italian "Mitcham"-type oil is scarce on the spot with new-crop for shipment at 66s. c.i.f. Spot. American, 35s. to 39s.

Petitgrain.—Paraguay, spot, 24s. 6d. to 25s. 6d. per lb., as to brand.

PIMENTO. - English-distilled berry is 175s, per lb.; imported, 72s, 6d. Rectified leaf, 27s, 6d. per lb, for small lots.

Sassafras.—Brazilian is 4s. 3d. per ib. duty paid.

Spearmint. — Offers of U.S.P. oil are from 31s, to 31s, 6d, per lb, on the spot.

UNITED STATES REPORT

New York, September 18: Light and dense SODA ASH and liquid grades of CAUSTIC SODA go up ten cents per 100 lb. while solid caustic soda will be advanced twenty cents on October 1. Half-cent advances were made in Di-METHYL PHTHALATE, bringing the price to 28 cents a lb. and in DIETHYL PHTHA-LATE, making it $27\frac{1}{2}$ cents. Trade in GLYCERIN slowed down with buyers cautious after the recent price reductions, TARTRATES will advance two cents a lb. on October 1. While quotations on Lobelia Herb remain from \$1.00 to \$1.15 a lb., the undertone is reported as easier. Chamomile flowers, Hun-garian style, remain steady at 78 cents a lb., with the Roman still at \$1.50. Higher per lb. were CASCARA SAGRADA at 33 cents (up two cents); and Hydras-TIS, \$3.25 (up ten cents); while Bourbon VANILLA BEANS fell fifty cents to \$8.00 a lb. Among Essential Oils, Peppermint was lower at \$5 a lb. (down 55 cents)

WORLD TRADE

Mercury Exports. -Italian exported 1,655 tons of mercury during the first seven months of the current year, against 532 tons in the same period of 1955, according to information published by the Italian Central Office

India's Chemical Expansion Plans.-The Indian Minister for Heavy Industries (Mr. Manubhai M. Shah), addressing the sixth meeting of the development council for heavy chemicals in India recently, said that the government was planning for self sufficiency in most of the basic chemicals by the end of the second plan. The targets of production for heavy chemicals in the second plan roughly represented a fourfold increase over the present level of production. Mr. Shah stated that the Government wanted most of the drugs, dyestuffs and pharmaceuticals to be manufactured in the country by the end of the second plan.

Swiss Chemical Industry. - About 30,000 workers—17 per cent, more than in 1946 and about 3 per cent. more than in the first quarter of the current year—are at present employed in Switzerland's 380 chemical factor-Labour is nevertheless short in the industry and overtime work is on the increase. Capital investments aimed partly at expansion and partly at modernisation of existing enter-prises were stepped up recently. Building space is short in and around Basle, the centre of the Swiss chemical industry, and there has lately been a tendency to set up new works in neighbouring districts. Exports of the Swiss chemical industries (in metric tons) during the first six months of 1956, followed by the equivalent 1955 figures, are as follows: Aniline dyes, 6,435 (6,727); pharmaceuticals, 3,593 (3,097); heavy chemicals, 52,268 (64.216).

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," September 5 For pharmaceutical preparations containing silicon ar silicon compounds, for use in treating the skin

SILICODERM, B751,408, by Farbenfabriken Bayer, A.G., Leverkusen, Germany

For pharmaceutical preparations for the treatment of the skin (5)

CORTODERM, 753,923, by the

Laboratories, Ltd., London, N.W.10. For pharmaceutical preparations and substances far human and veterinary use, sanitary prepara-tions, medical and surgical plasters, and bandages

NORDICAN, 751,838, by P. Beicrsdorf & Co., A.G., Hamburg, Germany,

For pharmaceutical preparations of enzymes for human and for veterinary use (5)

SUPPLEZYM, 753,835, by Akktiebolaget Astra. Stockholm, Sweden.

For dental impression materials; substances for use in filling teeth; veterinary substances and preparations; and disinfectants (5) ELCEMA, 753,868, by Dr. L. C. Marquart,

A.G., Beuel am Rhein, Germany.

For pharmaceutical, veterinary and sanitary substances; and preparations for killing weeds and destroying vernin (5)
POLYBOR, 754,839, by Borax Consolidated,

Ltd., London, S.W.1.

For all goods (5)

Device of word PROTIM, 754,333, by Gallwey Chemical Co., Ltd., London, S.E.8, NOLU-DARETS, 754,798, CLAFANONE, 755,517, by Roche Products, Ltd., Welwyn Garden City,

For scientific, inspecting, weighing, measuring, checking and projecting apparatus, instruments,

and parts (9)
SIGMA, 744,544, by Sigma Instruments Co., Ltd., Letchworth, Herts,

From the "Trade Marks Journal," September 12 Fo: chemical products for use in industry; and

syuthetic resins (1)

HOSTALEN, 744,706, by Farbwerke Hoechst,
A.G., vormals Meister Lucius & Bruning, Frankfurt, Germany,

For chemical preparations for addition to cement, concrete, plaster and floor-making materials to improve their hardness, tensile strength and

water-impermeability (1)
KORODUR, 750,281, by Westphal HartbetonGesellschaft, Berlin-Charlottenburg, Germany. For softening agents used in the manufacture of rubber (1)

NEO-SPANGOL, 751,684, by Willy Spangenberg & Co., Hamburg-Eideslstedt, Germany.

For plastics in the form of powders, pastes, liquids, emulsions, dispersions, pellets and granulates, all for industrial use (1)
RIGSAN, 754,673, by Organico, Paris, France.

Fo: chemical substances for removing scale from metal and for use in the pickling of metals (1) COSOL, 750,476, by Smith Bros, & Co. (Chemicals), Ltd., London, E.15.

For non-medicated toilet preparations, etc. (3) ICEFLOE, 753,175, by Lentheric, Ltd., London, W.1.

For insecticides and preparations for repelling insects (5)

WILD DUCKS, and device of three wild ducks flight, 751,069-70, by James Cox & Co., South Harrow, Middlesex.

For pharmaceutical preparations and substances

SOCCICONES, 747,021, by Société Anonyme pour L'Expansion des Marques de Fabrique et de Commerce, Courbevoie (Scine), France. SECURON, 753,083, by Imperial Chemical (Pharmaccuticals), Ltd., London, S.W.1. NEMBU-SERPIN, 753,090, by Abbott Labora-NEMBU-SERPIN, 753,090, by Abbott Labora-tor.cs, Chicago, U.S.A, PAYNAWA, 753,927, by Vepal Laboratories, Ltd., Hoddesdon, Herts, CEPHACTIN, SATISAL, 754,989–90, by Organon Laboratories, Ltd., London, W.C.2. COVATIX, SUVREN, 755,027–28, by H. Lundbeck & Co., A/S, Copenhagen, Denmark.

For x-ray contrast media for use in diagnosing disorders of the kidneys and urinary system (5) NEPHROSHADE, B747,873, by N.V. Dagra, Diemen, Holland,

For medicated toilet preparations in jelly form for the hands (5)

LEMGEL, 753,194, by Delisha Products Co., Dublin, Eire.

For all goods (5)

NITENSAR, 753,846, by Armour & Co., Chicago, U.S.A. STRYSOLIN, 753,907, by May & Baker, Ltd., Dagenham, Essex, DI-CONAL, 754,232, by The Wellcome Foundation, Itd., London, N.W.1.

Fo: veterinary ointments (5)

CETREAM, 753,918, by Thomas Pettifer & Co., Ltd., Rugby.

For deodorants (5)

FRESH MAGIC, 754,421, by Crystal Products Co., Ltd., Surbiton, Surrey.

For fungicides (5)

CUPOX 50, 754,843, by Latin American (Personal & Trade) Agency, Ltd., London, S.W.1. For fungicides for agricultural and horticultural

BURSOL, 755,387, by Burt, Boulton and Haywood, Ltd., London, W.C.2.

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Sunday, September 23

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Kent County Constabulary headquarters, Sutton Road, Maidstone, at 3 p.m. Visit.

MANCHESTER AND SALEORD BRANCH, PHARMACEUTI-CAL SOCIETY, Birdsgrove House, Ashbourne, Derbys, at 2,30 p.m. Official handing over of the Thomas Miller memorial lily pond.

Monday, September 24

BIRKENHEAD AND WIRRALL PHARMACISTS' ASSO-CIATION and BRANCH, Prenton hotel, at 8 p.m.
Illustrated talk by "Nomad" (B.B.C.).

MERSEYSIDE BRANCH, INSTITUTE OF PACKAGING, Exchange hotel, Liverpool, at 6.30 p.m. Miss A. E. Wiegand (British Standards Institution) on "Standardisation at Your Service."

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn hotel, Gidea Park, at 7.45 p.m. Film show by Cow & Gate, Ltd. Reports on British Pharmaceutical Conference,

STOCKPORT BRANCH, PHARMACEUTICAL SOCIETY, Boyle's café, Park Street, Stockport, at 7.45 p.m. Reports on Branch Representatives' meeting in London in May, and the British Pharmaccutical Conference in Dublin, Election of officers.

Tuesday, September 25

FINCHLEY BRANCH, PHARMACEUTICAL SOCIETY, Barnet general hospital, at 8 p.m. Visit to out-patients' department and pharmacy, Meet at Wellhouse Road entrance.

MANCHESTER BRANCH, INSTITUTE OF PACKAGING, Cussons, Sons & Co., Ltd., Kersal Vale, Man-chester, at 1.45 p.m. Visit.

Manchester Branch, Guild of Public Pharmacists, Queen's hotel, Manchester, at 6 p.m. Film show by Imperial Chemical (Pharmaceuti-

NORTH STAEFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, North Stafford hotel, Stoke-on-Trent, at 7.30 p.m. Miss L. M. Bedford (Coty (England), Ltd.) on "Perfumes, Skin Care and Make-up."

SHEEFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand hotel, Sheffield, at 8 p.m. Mr. J. B. H. Francis on "Port and Sherry." Admission 2s. 6d. (to cover cost of samples).

Wednesday, September 26

SOUTH LONDON AND SURREY PHARMACISTS' GOLF-INO SOCIETY, Shirley Park golf club, Croydon, 1.15 p.m., closing meeting; at 7 p.m., informal supper.

Thursday, September 27

Bradeord Branch, Pharmaceutical Society, Betty's café, Darley Street, Bradford, at 7.45 p.m. Cine film show by Mr. S. J. Kirby.

HULL CHEMISTS' ASSOCIATION and BRANCH, New York ballroom, Hull, at 7 p.m. President's re-

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, lecture theatre, Derby College of Art, Green Lane, at 7.15 p.m., Mr. W. T. L. Neal on "High Precision Absorptiometry."

SHEELELD PHARMACY CLUB, Maynard Arms, Grindleford, at 7.30 p.m. Dinner and social evening. Ticket, 11s. 6d., available from Mr. C. F. Cass, 27 Moor Oaks Road, Sheffield, 10.

Friday, September 28

MIDLANDS SECTION, SOCIETY EOR ANALYTICAL CHEMISTRY, main chemistry theatre, Birmingham University, Edgbaston, at 7 p.m. Pro-fessor L. Gordon (Syracuse University) on "Precipitation from Homogeneous Solution."

WILLS

Mr. P. WILLIAMS, M.P.S., 102 Victoria Street, Crewe, Ches, lcft £6,360 (£5,551 net)

MR, E. L. WILSON, B.A., 25 Oakleigh Avenue, Edgware, Middlesex (export sales manager, Ward, Blenkinsop & Co., Ltd.), left £5,075 KNOX LABORATORIES, LTD.

THE CROOKES LABORATORIES, LTD.

ALFRED FRANKS & BARTLETT CO., LTD.

Proladone Six 1-mil am-

Bartlett's combined lip and

evebrow brush

PRINT AND PUBLICITY

Advertising Campaigns

COLGATE-PALMOLIVE, LTD., 145 Charing Cross Road, London, W.C.2: Cadum soap. In Sunday Pictorial on September 23.

OATINE Co., 44 Kennington Lane, S.E.11: Oatine, On Radio Luxer On Radio Luxembourg at 9-9.15 p.m. on September 28,

Booklets and Leaflets

KODAK, LTD., Kodak House, Kingsway, London. W.C.2: "It Pays to Advertise Your Kodak Business," A list and explanation of Kodak sterios available to retailers for local te-up advertising, Pp. 12, "Kodak X-ray Liquid Fixer FX.40 and Liquid Hardener FX.40H." Pp. 4, "Light as You Like It." Pp. 8.

Catalogues

ELECTRONIC INSTRUMENTS, LTD. Richmond, Surrey: pH electrodes, Notes on the choice of electrodes are included, Pp. 20.

KODAK, LTD., Kodak House, Kingsway, London, W.C.2: Light filters. Pp. 12.

SIR ISAAC PITMAN & SONS, LTD., Pitman House, Parker Street, London, W.C.2: Autumn list of publications. "Books for Leisure." Pp. 20. 4.

COMMERCIAL TELEVISION

PROGRAMME details are given to enable chemists to put in linking-up displays if they wish. Notice given is as far in advance of the programme date as can be guaranteed by the broadcasting companies,

ALL STATIONS

SUNDAY, September 30: Coty 24 lipstick.

LONDON STATION

WEDNESDAY, October 3; Gibbs' S.R. tooth-paste (between 10 and 10.30 p.m.); Silvikrin (between 9.35 and 10,55 p.m.).

Dailly, October 1-5: Brylcreem

BIRMINGHAM STATION

WEDNESDAY, October 3: Astral cream (between 8 and 10,30 p.m.); Gibbs' S.R. tooth-paste (between 8 and 10 p.m.).

THURSDAY, October 4: Astral cream (between 8 and 10,30 p.m.).

FRIDAY, October 5: Loxene medicated shampoo. SATURDAY, October 6: Cussons' cold cream soap (at 10.45 p.m.).

MANCHESTER STATION

SUNDAY, September 30: Zoflora; Drene shampoo, Monday, October 1: Amami wave set (between 9 and 9.30 p.m.).

WEDNESDAY, October 3: Amami wave set (between 7 and 11 p.m.).

THURSDAY, October 4: Zoflora; Amami wave set (between 10 and 10.30 p.m.).

FRIDAY, October 5: Amami wave set (between 7 and 11 p.m.).

SATURDAY, October 6: Cussons' cold cream soap (at 10.45 p.m.); Fennings' cooling powders, mother's book, rheumatic tablets (between 2.45 and 3.30 p.m., and 10.45 and 11 p.m.).

Dailly, October 1-5: Silvikrin.

Display Material

BFECHAM FOODS, LTD., Great West Road, Brentford, Middlesex: Ribena, Bottle crowner, single-bottle stand and 1-doz, bottles merchandising stand.

LONDON RUBBER CO., LTD., Hall Lane, Ching-ford, London, E.4: London Suregrip rubber gloves, Counter "merchandiser," centre piece (19 x 16 in.), showcard (10 x 8 in.), display stand.

JOHN MORRELL & Co., LTD., 57 Victoria Street, Liverpool, 1: For Red Heart dog food and cat food.

WILLIAM FREEMAN & Co., LTD., Suba-Seal Works, Barnsley, Yorks: Suba-Seal hot-water bottles. Three showcards available.

RANK PRECISION INDUSTRIES, LTD., Cine and Optical Division, 37 Mortimer Street, London, W.1: G. B. Kershaw 110 camera. Showcard, black on yellow, on which are mounted two example prints. Size, $4\frac{3}{4} \times 7\frac{1}{4}$ in.; strut support.



" CROWNERS " AND STAND COMBINED: Window-display material now being issued for Silvikrin preparations by County Laboratories, Ltd., Honeypot Lane, Stanmore, Middlesex. Each crowner depicts a hair disorder common to men.

C. & D. WEEKLY LIST OF PRICES

Advanced; R—Reduced; I.R.P.—Inclusive Retail Price; *-Tax 30 per cent.; †-Tax 90 per cent.

GLAXO LABORATORIES, LTD.

HELENA RUBINSTEIN, LTD.

Prince Gourielli after-shave

tonic hair groom† eau de Cologne† shaving cream bowl*

tonic hair shampoo*

talcum powder?

10

17

The state of the s						GLAAO LABORATORIES, LID.			
Nixoderm ointment*	D		L.R	.Р.		Ef-Cortelan ointment, Nos. 1			
standard size	27	0	3	9	A	and 2 5-gm, tube 3 0	1	0	
economy size	54	0	7		A		7	0	
		0	•			cin eye ointment			
COLDONA DROG									
SOLPORT BROS., LTD. (purchase tax exemp-					3.5-gm, tube 6 0	ð	0		
tion)									
Portia baby weigher	46	Ω	5	9	R	HALEX DIVISION OF BRITISH X	YLO	NII	E
hammock	42			4	R	CO., LTD.			
outfit complete	88		11			Kiddibrush*	12	11	
outili complete	00	0	11	1	K	a Electron a Sti		**	
						HUGHES BRUSHES, LTD.			
NEW PRODUCTS	ANI) P	ACK	S		Dandy Duck brush*	27	6	
		_	11011						
THE ARMOUR LABORA?	FORIE	S				J. G. INGRAM & SON, LTD.			
	Fa	ich				Babies' bottle teats		41	
Biopar forte tablets 30			16	n		Babies' soothers		6	
60		ő	30			Davies southers		**	
500	152					ENOV LABORATORIES ATP			
500	132	U	220	U		KNOX LABORATORIES, LTD.			
						Nixoderm ointment* Doz.			
BENGER LABORATORIES	5, EH	D,				trial size 13 6	1	10	
Imferon (veterinary)									
20-c.c. vial	16	8	25	0		LINCOLN HAIR PRODUCTS, LID.			
20 c.c. 1141	10	0		0		Linc-o-Lin beer shampoo*			
DIALIENIE DOOD GO V	-							,	
						four-shampoo barrel 15 71	2	6	
Blakey's "cachous" tube				6					
						MAX FACTOR HOLLYWOOD AND	LON	DO	N
THE PRITICIL PRICE NO.	LICEC		r D			(SALES), LTD.			
THE BRITISH DRUG HO						Lazy shave shaving lather*	-	3	
Pectamol linctus* 60 mils	2	6	- 4	6		Lazy shave shaving lather	0	3	
250 mils	8	9				AFFECT OF THE PARTY OF THE PART			
2 litres	56	1				MENLEY & JAMES, LTD.			
(The 2-litre price include	s bo	ttle	charg	re	of	Vasocort Spraypak	- 5	10	
1s. 6d.)			C.Ital E	,-	01				
15. 04./						RIKER LABORATORIES, LTD.			
E W COLE LED						_,			
E. K. COLE, LTD.						Calcium disodium Versenate Each			
Ekco plastic measuring jug			8	6		vcterinary pack			
adult chamber			10	6		25 gm, in 100-c.c, vial 18 0	27	0	

C. & D. RETAIL AND DISPENSING PRICE LIST

12 0

4 10

9 0

The drug index for August was 203

C	ost	Item	4 oz.	1 oz.	1 dr.		
d.	per	Tem			s. d.	s. d.	s. d.
36	500 gm.	Calcii chlorid, hyd.			1 3	0 41/2	
123	500 mils	Emuls. menth. pip.			4 0	1 1	0 2
144	100 gm.	Ferri et quininæ citras				5 10	0 10
92	kilo	Mel. depurat., B.P., 1948	***		1 8	0 6	0 1
114	500 mils	Ol. eucalypti			3 9	1 0	0 2
110	pint	Ol. olivæ			3 2	0 11	0 2
57	500 gm.	Pulv. glycyrrhizæ co. op	it.		1 11	0 7	0 1
72	500 gm.	Pulv. cretæ aromaticus			2 4	0 8	0 2
53	100 mils	Spt. cajuputi			_ :	2 2	0 4
40	100 mils	Spt. camphoræ			_	1 8	0 3
25	25 gm.	Trinitrophenol		P.I. (8)	_ :	4 1	0 7
60	25 gm.	Sulphadiazin,	S.1	R only		_	1 7

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.



Everyone is talking about...



PANADOL—the new Bayer analgesic which contains no aspirin, phenacetin or codeine. Panadol relieves pain without causing side-effects such as gastric irritation or constipation, and is fast becoming established as a safe, effective analgesic for headaches, rheumatic and arthritic pain, colds and 'flu.

Panadol is not a scheduled poison, and may be bought from chemists without a prescription.



PANADOL

Trade Mark

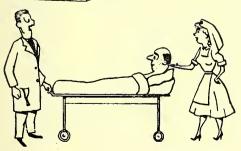
Tablets, 0-5g. N-acetyl-p-aminophenol, in cartons of 20, bottles of 100 and 500.

Retail price of 20 tablets: 3/11 (trade 26/3 per doz.)



BAYER PRODUCTS LIMITED

Neville House, Kingston-on-Thames, Surrey Export enquiries to: WINTHROP PRODUCTS LTD







MICONITY NO



Introduced last Autumn, "Tussola" was an Immediate success. Your customers will ask for it again and again and recommend it to their friends. The active ingredients are Pholcodine and Squill in a base containing treacle, honey and liquorice. 4 oz. size 17/- doz. plus $5/l_{\frac{1}{2}}$ P.T. Retail 2/7 bottle.

Bonus and crowner available.

> has been used successfully in the treatment of asthma and chronic bronchitis for over 40 years and sales continually increase. It is advertised to the medical profession and widely prescribed on E.C.10. Letters we receive indicate the great relief given by this preparation. 4 oz. size 26/6 doz. plus 7/11 P.T. Retail 3/9 bottle. Bonus, leaflet and tax free dispensing pack available.

Cuxson, Gerrard E Co. Etd.

FOR THE DISPLAY FORTHIGHT COMMENCING SEN OCTOBER "Eupinal" EUPINAL for the Treatment of Chronic Bronchitis and Asthma

Cuxson Gerrard

OLDBURY BIRMINGHAM

NEW IT'S TRULY ANTI-COLIC

NEW **Bottle**

Mothers will be clamouring for the new Feedrite with the Controlled Flow Teat and the choice of Glass or Nylon bottle.

Our National Press campaign will bring them into your Shops. Don't disappoint your customers-make sure your stocks are sufficient to meet the demand.

Showcards and Leaflets supplied on request. Obtainable only from your wholesaler.

300, KINGSTON ROAD, MERTON PARK, SURREY

FEEDRITE BOTTLE AND CONTROLLED FLOW TEAT.

FEEDRITE SPARE BOTTLES.

FEEDRITE SPARE THERMAL HEAT RETAINING PAD SETS.

FEEDRITE ANTI-COLIC CONTROLLED FLOW TEATS Cherry or Straight. FEEDRITE RUBBER BOTTLE STOPPERS.

FEEDRITE FOOD AND BATH THERM-OMETERS.

FEEDRITE NYLON BOTTLE.





A Selective Oestrogen

SEARLE

dolMETHALLENGESTRIL

Descriptive literature and directions for use available to the physician Reference Manual No 7

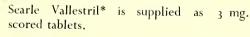
& CO.LTD

3 mg.

SEARLE

Vallestril* brand of Methallenoestril is established as a selective synthetic oestrogen because it provides potent oestrogenic activity-only in certain organs. It provides potentaction on the vaginal mucosa with minimal effect on the uterus or endometrium. Vallestril is singularly free from toxic effects and complications, especially uterine bleeding. Other unwanted reactions, common with oestrogen therapy, such as nausea, mastalgia and oedema occur less frequently with Vallestril.

Potent Action on Vaginal Mucosa



Retail Price:

100 1000 22/9 207/-

Trade terms $33\frac{1}{3}\%$

*Vallestril is a Registered Trade Mark.

Order through your Wholesaler

G. D. SEARLE & CO., LTD. 83, CRAWFORD STREET, LONDON, W.I

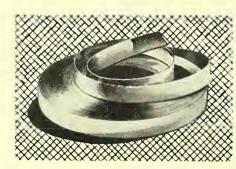
VA : T96

Quality and versatility

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AND COMPANY LIMITED







Capsules
Rigid Aluminium Tubes
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Tin and Lead Foils



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7 LEATHER MARKET · LONDON S.E.I





-'Health-Master' family productionhas increased ... to meet your demands ...



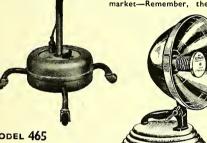
The latest addition to the Barber family. For only 59,6d, has a great future—"It's just what the doctor ordered"; in fact. Lightweight, portable and stable this Infra-Red/Luminous - Heat Lamp has a powerful (350 watt) Thermal Heat Generator. Supplied in attractive, stout cardboard pack, the 'Five-Nine-Six' is, the most competitive lamp on the market—Remember, the price is only 59/6



MODEL 425

MODEL 325

De-luxe Infra-Red and Luminous - Heat Lamp. 12½" parabolic reflector and powerful thermal heat generator. heat generator. Weighted base houses switchgear. £8.10.0



MODEL 465

FOR the first time—3 stage control from one lamp. Ultra-Violet or Infra-Red or Luminous-Heat. A superb model, stable, mobile and featuring fully adjustable head, visual "on" neon indicator. No exposed live electrical contacts.

MODEL 'POPULAR'

Another low-priced, portable Infra-Red and Luminous-Heat Lamp that has truly proved popular with trade and public alike. 10" parabolic reflector and powerful thermal heat generator for quicker deep heating effect. 90/-

There's now a Barber Lamp tomeet every demand, from 59/6 to £25 - all exempt from Purchase Tax

> DONT DELAY! ORDER TO-DAY!

MODEL 365

Ultra-Violet or Infra-Red radiation at the touch of a switch. Powerful pure fused quartz mercury vapour burner of the high pressure type. Fully adjustable head.



SUPPLIES AVAILABLE FROM WHOLESALE DISTRIBUTORS & STOCKISTS

Designed, Produced and Marketed by:-

BARBER ELECTRICAL SERVICES LTD., BIRMINGHAM 16-

Telephone: EDGbaston 3511 (P.B.X.)

Telegrams: Barberlamp, B'ham, 16.

MILLIONS OF WOMEN

see Evan Williams advertising make sure they see

EVAN WILLIAMS

Shampoos on your counter

Your customers see EVAN WILLIAMS advertising in all these journals DAILY MIRROR · DAILY SKETCH · WOMAN'S SUNDAY MIRROR WOMAN · WOMAN'S OWN · WOMAN'S WEEKLY · FEMININE SIX · LUCKY STAR · WOMAN'S ILLUSTRATED · PICTUREGOER HOME NOTES · HOME CHAT · WOMAN & HOME · MY HOME TRUE ROMANCES · ETC.

EVAN WILLIAMS CO. LTD · AINTREE ROAD · PERIVALE · MIDDX

Now... a treatment





She'll brighten her kitchen . . . and brighten your sales!

TOUSEWARE made from 'Alkathene' was a big success with housewives as soon as they saw it. As soon as they used it they wanted more.

'Alkathene' houseware is being advertised nationally in women's magazines. All these advertisements feature the 'Alkathene'

label-your customers will be asking for 'Alkathene'. Use the bright, eye-catching display material to link your sales effort to the national campaign. Organise your own 'Alkathene' Week with special window and interior displays. That is the way to gain customers and profit from the 'Alkathene' advertising!



I.C.I. do not themselves manufacture houseware from 'Alkathene'. All enquiries for individual articles should be addressed to the manufacturers through the usual trade channels.

* 'Alkathene' is the registered trade mark for the polythene made by I.C.I.

THE I.C.I. BRAND OF POLYTHENE

IMPERIAL CHEMICAL INDUSTRIES LIMITED . LONDON . S.W.I



AH 13/T



Stock them, show them



For Father Christmas — a wonderful Lavender Shaving Bowl and refreshing After-Shave. Retail price — 7/6d. Trade price — 45/6d. per doz.



Christmas Cubes

In their prettiest dress, 3 French Pink and 3 French Moss perfumed Bath Cubes. Retail price — 3/-. Trade price — 15/- per doz.



Christmas Caravan

Lovely Field's Lavender Soap with Tale to match. Retail price — 5/9d. Trade price — 34/6d. per doz.



Lovely Field's Lavender Talc and 6 Bath Cubes. Retail price — 6/9d. Trade price — 34/3d. per doz.



of Field's French Fragrances

are going up and up

More and more women are falling for Field's French Pink and French Moss. The new soaps and talcs the perfumes imported from Paris. They're proving tremendously popular! Sales are going up and up! That's a fact. You'll have discovered it yourself.

Cash in on the demand!

Field's are confident that there's going to be a great demand this Christmas.



are helping you with a tremendous

Christmas campaign!

In full colour!

Appearing $4\frac{1}{2}$ million times!



Do yourself a good turn!

Order plenty of Field's Christmas coffrets Give them really good display

They'll sell on sight!

J. C. & J. FIELD LTD., CHURCH ST., AMERSHAM, BUCKS.





* Order this Combination Set NOW from your usual wholesaler. Wholesale enquiries to:

ALFRED FRANKS & BARTLETT CO., LTD., 226/8, Grays Inn Road, London, W.C.I

Tel: TERminus 9865

NEW . . . VASOCORT SPRAYPAK

hydrocortisone for intranasal use

Contains: Hydrocortisone alcohol 0.02% — the most effective anti-inflammatory steroid — and two decongestants: phenylephrine hydrochloride 0.125% and 'Paredrinex' (p-hydroxyamphetamine hydrobromide) 0.5%.

Indications: Nasal congestion, chronic and allergic rhinitis, and sinusitis.

No systemic side effects: When applied locally, hydrocortisone produces maximum therapeutic response with an extremely low concentration. Because of this low concentration, 'Vasocort' produces none of the side effects associated with the systemic use of hydrocortisone.

Virtually no rebound turgescence: Since 'Vasocort' contains low concentrations of each decongestant, it very seldom produces rebound turgescence.

VASOCORT SPRAYPAK

a new kind of intranasal treatment

Retail Price 5/10d. each



PRODUCT

Menley & James, Limited, Coldharbour Lane, London S.E.5 for Smith Kline & French

·Vasocort' is a registered trade mark



is for CADUM

C is for Cadum as advertised to
One in three customers living near you.
With the Pic in support, needless to say,
This is the time for a Cadum display.

Cadum advertising appears in the Sunday

SUNDAY PICTORIAL

Pictorial on September 23



'PYREX' 'Grip-Seal' Joints simplify apparatus assembly ... are 100 per cent effective

The perfect-fitting qualities of 'Grip-Seal' Joints are due to the unique 'Pyrex' method of manufacture, which ensures that every joint, both male and female, is ground and tested with micrometric precision.

Further, 'Grip-Seal' design results in stronger joints, with sturdier walls, more robust beadings, and sensible parallel gripping surfaces.

The logical result is, of course, that apparatus assembly is simplified, because every joint fits closely and securely, while the clamps hold the apparatus in a firm, safe grip.

Breakages in assembling and dismantling seldom occur, and expensive apparatus is thus safeguarded to give longer service.

That's typically 'PYREX' of course... one hundred per cent satisfaction.

 A special section of the 'PYREX' catalogue deals with 'Grip-Seal' apparatus. If you would like a copy, please send your name, address and position in firm or organisation.



JAMES A JOBLING & CO LTD
Wear Glass Works Sunderland

THE ONLY MAKERS OF PYREX' BRAND GLASS IN THE UNITED KINGDOM

Still the most reliable remedy for Rheumatism

For nearly 40 years Curicones has been kept abreast of medical research. With its present formula, it is certainly the most reliable general remedy you can recommend to Rheumatic sufferers.

And its advertising is never allowed to get in a rut. Now that it is being stepped up in volume, watch Curicones sales begin to grow Never let yourself run out of stock of the 5/5½, 13/8 or 26/2½ sizes.

And make sure, also, that your stocks include Curicones Tablets. These tablets are proving increasingly popular and our free sampling campaign is producing quite a demand in those areas where we are carrying it out.



Your whole-saler can supply you on the same terms as capsules.



AND

P.A.T.A

STEPHEN MATTHEWS & CO., LTD., 19/21 Farringdon Street, London, E.C.4

Plenty of people will be coming into your shop coughing and sneezing this autumn sell them

BESORBON

MEDICINAL SNUFF

the **proved** remedy for colds and catarrh

Your wholesaler can supply you promptly. Orders of one dozen come in attractive counter display box for

MORE SALES - MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3



Only the finest Gum Tragacanth flakes are bought by KIMPTON BROS. LTD. Gum Tragacanth in its natural state, however, has imperfections and variations which can create problems in a manufacturer's production. By processing it into "Red Carnation" Brand, KIMPTON BROS. LTD. have eliminated those problems, providing manufacturers with a choice of four grades of Gum Tragacanth, each of certified quality and characteristics, stabilised as regards viscosity, colour and fineness of powder, and packed in airtight tins. Whatever you order, whenever you order, you can be sure that every batch you get is of the same quality, and has the same characteristics.

WHOLESALE AGENTS FOR SMALL PACKS (4 oz., 8 oz. and 16 oz. tins)

**MAY, ROBERTS & COMPANY, LIMITED ** FRANCIS NEWBERY & SONS, LIMITED

**TRANCIS NEWBERY & SONS, LIMITED

IMPTON BROTHERS LTD

Established in 1882

110 FENCHURCH STREET

LONDON, E.C.3

TELEPHONE: ROYAL 5544 (5 lines)

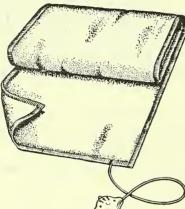
2 New Best Sellers

They've got what it takes to sell—and sell! The new Best Electric Blanket and Mattress Overlay look and are the luxury comforts of everyone's dreams—but their prices are strictly in the moderate class! Both are fitted with one-piece continuous self-compensating element. No thermostats, no arcing, no radio or TV interference.

BOTH CARRY A WHOLE TWO YEARS GUARANTEE

BEST ELECTRIC BLANKET

Single size (60" x 30"). Single heat. Covered in down-soft Duplex-Rayon, the last word in comfort. In a rich attractive apricot shade. This product makes an overwhelming appeal at only £6.11.0 plus tax.





The Blanket and the Overlay are each packed in their own colourful display boxes, incorporating an attractive cut-out figure to compel attention and ensure quick sales.

BEST MATTRESS OVERLAY

Designed to use permanently on the mattress. Of really generous single-bed size (66" x 30") the overlay can be laid flat on the mattress and left in position. In figured cotton damask, in the favourite maroon shade. And only £5.14.6 plus tax.



BEST PRODUCTS LTD.
FELIX WORKS
FELIXSTOWE
SUFFOLK

ONE OF THE COSSOR GROUP OF COMPANIES



Belfast Telegraph

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THE NEWSPAPER WITH THE LARGEST CIRCULATION IN NORTHERN IRELAND

I/2d. on every bottle of APPLEFORD'S CIDER VINEGAR

33½% profit for you Year-round advertising boosts yoursales! APPLEFORD LTD., LANDOR ROAD, LONDON, S.W.9.







Anticolic Teats and Babyblend are advertised every month to 12,000,000 women

DOUBLE-FEATURE ADVERTISING

in top-circulation journals with a nation-wide appeal to mothers. That's Maw's advertising, designed to continue the phenomenal increase in the sales of their Anticolic Teats, Dinky Feeders and Babyblend—all part of a campaign to bring an increasing Nursery Products trade to chemists—and Chemists only. In addition, each month the spotlight is turned on other products featured in Maw's Baby Corner. By displaying Maw's Baby Goods you show your interest in every Mother's preatest interest.



BABIES MEAN BIG BUSINESS FOR CHEMISTS
S Maw Son and Sons Limited Barnet England

WIFE & HOME · FAMILY DOCTOR · NURSING MIRROR MOTHER · PARENTS · NURSERY WORLD · THE BABY BOOK

Priced to retail at 1/6d.

THE OVALTINE RESEARCH LABORATORIES

MALTO



A QUALITY PRODUCT OF MODERN NUTRITIONAL SCIENCE

'VIMALTOL' is a concentrated vitamin food, formulated by and prepared under the control of the 'Ovaltine' Research Laboratories—which are actively investigating problems in nutrition and dietetics. They bring to its manufacture a high degree of scientific knowledge and a meticulous standard of hygiene.

'Vimaltol' contains malt extract, yeast, halibut liver oil, vitamins and iron. Every ingredient used is rigidly tested for purity and quality, the final product being accurately standardized for vitamin content.

Vimaltol' provides valuable nutrients of undoubted assistance to infants, fast-growing children, nursing mothers and to those whose diet is inadequate or unbalanced. It helps to build up strength, weight and the natural powers of resistance. 'Vimaltol' is highly palatable—a decided advantage when recommending it for children.

Standardized to contain in each ounce not less than 2,000 i.u. Vitamin A; 200 i.u. Vitamin D; 0.4 mg, Vitamin B_1 ; 0.3 mg, Vitamin B_2 (Riboflavin); 4 mg, Niacin (P.P. Vitamin); 3.3 mg, Iron in a readily assimilable form.

On the PATA

Trade Prices: 1 lb. jars 30/6 per doz.; 2 lb. jars 54/- per doz. (Exempt from Purchase Tax)

Retail Prices: 1 lb jars 3/6; 2 lb. jars 6/3

For further details write to: A. WANDER LTD., 42 Upper Grosvenor Street Grosvenor Square, London W.1.



A Product of the 'Ovaltine' Research Laboratories



IMPORTANT ANNOUNCEMENT

re Nixode SKIN OINTMENT

THE INTRODUCTION OF A NEW SIZE

(Effective as from 17th September, 1956)

The new Trial Size is smaller than the current Standard and Economy sizes. Packed two dozen tins in an attractive Display outer.

SIZE	PRICE PER DOZEN TO WHOLESALER	PRICE PER DOZEN TO CHEMIST	PLUS P/T 30%	TAX INCL. PRICE TO CONSUMER
TRIAL	11/10d	13/6d	4/- (4d each)	1/10d
STANDARD	23/7d	27/-	8/2d (9d each)	3/9d
ECONOMY	47/3d	54/-	16/3d (1/5d each)	7/6d

NATION-WIDE ADVERTISING CAMPAIGN NOW IN OPERATION. Order through your usual wholesaler.

KNOX LABORATORIES LTD · 46 HERTFORD STREET LONDON · W.I



You can establish customer goodwill by issuing an itemised and correctly totalled receipt to each customer. A duplicate copy remains as a locked in record of every transaction.

Sub totals

Your up-to-the-minute turnover can be obtained at any time during the day by simply pressing a button. The public likes to see efficiency and efficiency attracts the public. The smart clean line of the Regna Cash Register on your counter takes but half the valuable space occupied by old fashioned machines—compact and super efficient you can be proud of its appearance in your shop.

Increased Efficiency

Visible control detail rolls, clearly printed and easily read. Repeaters and multiples can be

Various models available to suit your individual requirements. Electrical operation on some models for super-speed.

SEND NOW for further information of the particular model to suit your needs.

REGNA CASH REGISTER CO., 27 John Adam St., London, W.C.2. Tel: TRA 3718 Scottish Office:—27 Oswald Street, Glasgow, C.1. Phone: Central 3710



Accountant says: REGNA accuracy saves me neurs of checking time.



Chemist says:
My two-total REGNA
analyses my takings in a flash.



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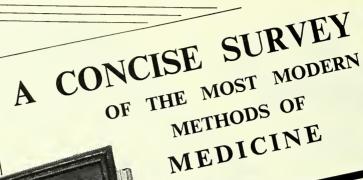


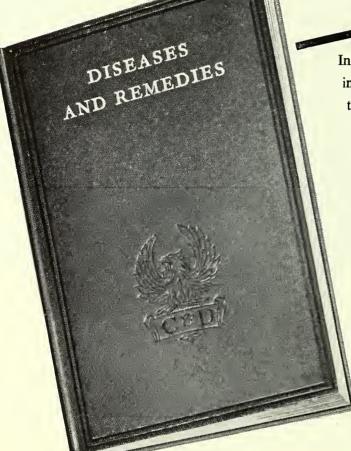
Grocer says: Faster service and accurate charging with REGNA Itemiser.



Draper says: i use all REGNA models to advantage.

CASH REGISTER COMPANY 27 JOHN ADAM STREET, LONDON, W.C.2





In order to co-operate effectively in the National Health Service. the pharmacist must be in a position to advise his medical colleagues on the advances in pharmacology. "Diseases and Remedies" has been written to provide the essential background to such advice. This tenth edition has been extended to deal with new treatments of sufficient promise to warrant the belief that they will become established practice.

"Diseases and Remedies"

10th Edition

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DISPENSING BOTTLES 1-oz. to 20-oz.

RIBBED OVALS 1/2-02. to 16-02.

BOW-FRONT PANELS 1-oz. to 8-oz. and 16-oz.

OLIVE OIL BOTTLES
2½-oz., 5-oz. and 10-oz.

OVAL TABLET BOTTLES Nos. 1 to 7½ sizes.

ROUND SCREW JARS
Tall and Semi-squat.

PANEL FLATS 2-oz. to 4-oz.

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Bismuth Aluminate Bi₂ (Al₂O₄)₃, 10H₂O, a patented compound, is manufactured under licence in the United Kingdom by

MINING & CHEMICAL PRODUCTS LIMITED, LONDON

The Best costs no more!

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Highest Standard of Purity

WHOLESALERS ONLY SUPPLIED **ENGLISH MANUFACTURE** USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

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QUADRUPLE BARBITURATE TABLET OFFERS SEDATION WHEN NEEDED WITHOUT DROWSINESS

---- Each Tablet Contains-----

SECOBARBITAL SODIUM - - - gr. } PENTOBARBITAL SODIUM - - gr. } BUTABARBITAL SODIUM - - - gr. # PHENOBARBITAL - - - - gr. |

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THE ARMOUR LABORATORIES (Armour & Company Ltd.)

HAM PDEN PARK · EASTBOURNE · SUSSEX

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- ★ Black Plastic or White Enamelled Caps.

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- ★ Reasonable in Price.
- **★** Prompt Despatch from Stock.
- ★ Available in the following sizes:— $\frac{1}{2} = \frac{3}{4} = 1 = 1\frac{1}{2} = 1\frac{3}{4} = 2 = 3\frac{1}{2} = 0z$.

"The Sign of a



Good Bottle"

Suggested Packs :-

1-oz.-25 Aspirin.

1-oz.—50 Aspirin or 25 Codeine.

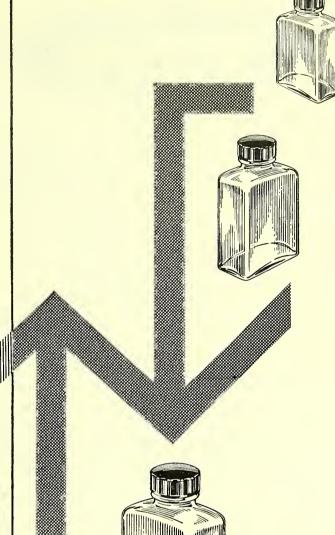
13-oz.—100 Aspirin or 50 Codeine.

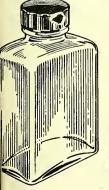
3½-oz.—100 Codeine.

Beatson Clark & Co., Ltd.

GLASS BOTTLE MANUFACTURERS

ROTHERHAM ESTABLISHED 1751 YORKS.

















6 3

B.T.I.



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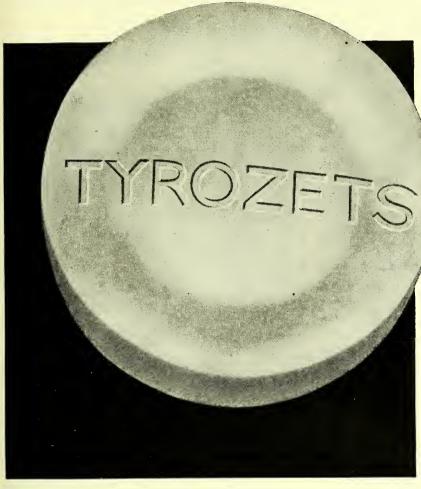
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MADE BY RAYNER AND COMPANY LIMITED, LONDON; N.18



The antibiotic-anaesthetic throat lozenge first in every way



FIRST

in fact

FIRST

in presentation

FIRST

in mind

FIRST

in sales

GENEROUS BONUS OFFER

Limited Period

Parcels of 72 tubes 'TYRO-ZETS' invoiced as 66 (£5.10.0 net) i.e., 6 TUBES FREE. Any number of parcels may be ordered.

'Tyrozets' may be sold by Retail Chemists without a prescription.

'Tyrozets'

TYROTHRICIN-BENZOCAINE THROAT LOZENGES

These pleasant, slow-dissolving lozenges soothe the irritated mucosa through their harmless analgesic content, and exert a continuous germicidal effect against the gram-positive bacteria commonly found in the larynx and the oral cavity. 'TYROZETS' rapidly relieve pain and discomfort.

Supplied in counter boxes of 12 tubes. List price 2/6 per tube (exempt PT)

MERCK SHARP & DOHME LTD., HODDESDON, HERTS.

'Tyrozets' is a Registered Trade Mark.





From your usual wholesaler or BIOCRIN LIMITED VINES

222-224, HARROW ROAD, LONDON, W.2

Telephone: CUNningham 1172-3

DE-NO

For the treatment of stomach ulcers

This unique product is now available on the British market, and can be obtained from the Distributors for the United Kingdom at the addresses given below. In view of the remarkable success in many parts of the world of the DE-NOL method in the treatment of ulcerative conditions of the stomach, it is anticipated that the product will enjoy an extensive sale in the United Kingdom.

The Retail Price of the DE-NOL treatment is £14 · $2 \cdot 3$ (incl. tax).

> YOU CAN SELL DE-NOL WITH CONFIDENCE .

Terms and literature an request

PEPTINOL (G.B.) LTD.

80 Elswick Road, Newcastle upon Tyne 4

Tel: Newcastle 34350 Tel. Add: "DE-NOL, NEWCASTLE UPON TYNE"

UNITED KINGDOM AGENTS

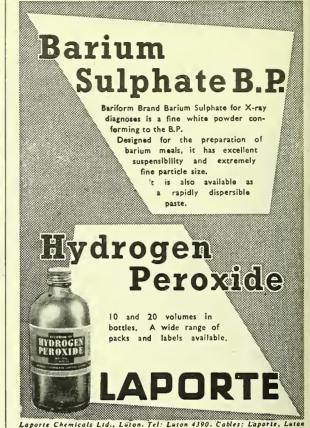
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A Source of New Business

Builds Up Nerve Power

There is an unlimited demand for this new Biochemic Tablet. Show it — it Sells on Sight!

P.A.T.A.

NEW ERA LABORATORIES LTD

Cecil House, Holborn Viaduct, London

SMALLER SIZE TRESS



Heavy advertising in

'WOMAN'

'WOMAN'S OWN'

'DAILY MIRROR' etc.

will reach 15,000,000 WOMEN

widening the market for this fast-selling wave-set

TRESS, already one of the biggest selling wave sets, will reach an even wider market with the addition of this half-size pack. Be sure you have stocks to meet an entirely new demand for 1/9d Tress. The large size will still continue in demand by enthusiasts who have formed the habit of buying Tress at 2/10½d per bottle.

TRADE TERMS

SMALL SIZE
Price 8/10d
per dozen bottles
plus 90% tax
seiling at 1/9d per bottle.
LARGE SIZE
Price 14/5d
per dozen bottles
plus 90% tax
selling at 2/10/1d per bottle

GOLDEN LIMITED, 7 GROSVENOR STREET, LONDON, W.I. Hyde Park 1671

Trade Enquiries for the Republic of Ireland should be addressed to: Lilmar Pharmaceuticals, Ltd., Santry, Dublin.

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INECTO Colour Creme

It is the best and most up-to-date permanent hair-tinting preparation on the market.

Complete and ready for use, with enclosed picture directions. There is a comprehensive range of 18 lovely natural shades from Deep Black to Light Blonde.

From your wholesaler
3/4 plus P.T.
8/- retail.

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Please ask for
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shade indicator

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HYDe Park 7541 (12 lines)





* feature Kay's display material prominently on your counter

KAY'S

in syrup for the home - in pastilles for the pocket



What's Best for Baby is Best for you! KUMFY-KIDDY BABY PANTS

Great strides are being made today in the plastic field. As new and better plastic film and sheeting become available, we use them for our baby wear—where possible at no extra charge—following our policy of only using the finest materials obtainable.

A new top quality plastic, which is softer, more pliable and harder-wearing, is being used for our baby pants. Other refinements will surely follow since improvements are continually being made in the sustained effort to secure perfection.

Also available in the "Kumfy Kiddy" range are Nylon Film pants and covered pants in rayon tricot and nylon.

Waterproof and washable they carry the famous Lux Washability Certificate. Non-toxic and hygienic, they do not become 'tacky' when warm nor stiff and uncomfortable in cold weather.

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An hygienic and intensely practical development, these sleeve feeders give complete protection to baby's clothes. Printed on

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Our wide range of fast-selling children's aprona in Plastic and Taffeta is printed with a selection of ever popular children's animal characters. Designs include Walt Disney's Mickey Mouse, Muffin the Mule, Prudence Kitten and the Daily Mail character Teddy Tail. Packaged in cartons to make attractive counter display.

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plastic in attractive designs. Packed in display cartons containing twelve feeders.

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Display Zoflora on your counter-it's a good steady seller

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In the new super spray, This fine, fast-selling product is an article you can recommend with confidence.

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ANNOTATION, Brit. med. J., 1. 282. 1956

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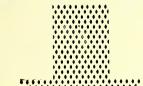
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The dosage in an adult for the treatment of an infection of average severity is six tablets daily at four-hourly intervals. Smaller doses of the scored tablets may be given (e.g., in jam) to children.

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A bottle of 30 tablets (sufficient for five days' treatment in an adult) costs 6s. 10d. That is, the basic cost to the N.H.S. is less than 1s. 5d. per day.

PACKS: 60 mg. tablets.* Bottles of 30, 200 and 1,000.

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Here are a few suggested displays, quickly, easily made. All the display material is supplied free. Ask our representative. He will be pleased to help you.

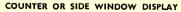


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This year William R. Warner has celebrated its 100th anniversary. From small beginnings the Company has developed so that today it has factories and distribution centres in almost every country in the world. Considerable changes have taken place in Great Britain—new laboratories have been built at Eastleigh in Hampshire and these are manufacturing the many products marketed by the Company. This building is now being enlarged and in about a year's time all the Company's operations will be centred at Eastleigh.

To enable the Company to keep pace with these developments, many additional MEDICAL REPRESENTATIVES are required and there are vacancies for ambitious, enthusiastic men, 25-35, in various parts of the country. The work is interesting, well paid and a car is provided. The appointments are permanent, entitle the successful applicants to membership of the Company's free pension scheme and provide the stepping stone for promotion to executive positions in this country and overseas. All applications will be considered and those selected will be given a thorough training before moving into their territories.



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Write in confidence for application form to Personnel Manager.

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PUBLIC NOTICE

18/- per half inch (min.) and pro rata.
Box 2/-

MEDICINES, PHARMACY AND POISONS ACT (NORTHERN IRELAND), 1945

Proposed Control of the Sale or Supply of Bleach

The Poisons Board for Northern Ireland, as constituted under section twenty-six of the Medicines, Pharmacy and Poisons Act (Northern Ireland), 1945, intends to advise the Minister of Home Affairs for Northern Ireland to exercise the powers vested in him by sub-section (6) of section twenty-six A of the Act to include sodium hypochlorite (commonly known as bleach) in Part II of the Poisons Schedule.

The effect of this would be to confine the retail sale of this substance to chemists and druggists and persons who are registered with the local authority to sell poisons included in Part II of the Poisons Schedule. Further, it is the intention of the Board to recommend to the Minister that sodium hypochlorite should not be sold, either by wholesale or retail, or supplied in any bottle which is labelled, embossed or marked with the name or trade mark of any manufacturer, wholesaler or retailer of a food or drink; or to supply the substance in any bottle of a shape peculiar to a particular brand of food or drink or which is likely to be associated with such food or drink.

Any person wishing to make representations about this proposal should communicate with the Secretary of the Poisons Board, Ministry of Home Affairs, Stormont, Belfast.

C 5668

TENDERS

URBAN DISTRICT COUNCIL OF WOKING SHOPS AT MAYBURY ESTATE,

WOKING, SURREY
Applications are invited for tenancies of three shops and maisonnettes at present in the course of erection at the Maybury

three shops and maisonnettes at present in the course of crection at the Maybury Estate, Woking. Particulars and forms of application can be obtained from the undersigned to whom they must be returned in a plain sealed envelope bearing the words "Tender for Maybury Shops," such envelope not to bear any name or mark indicating the sender, not later than noon on October 13, 1956.

Sender, not later than 1956.
The Council do not bind themselves to accept the highest or any tender.
Dated this 18th day of September, 1956.
M. SHAWCROSS,
Clerk of the Council,

Council Offices, Woking, Surrey, C 5683

PREMISES TO LET

SUFFOLK MARKET TOWN

Attractive corner shop in the Town centre.

Modernised premises adjacent to multiple traders, 18 ft, 6 in, by 42 ft, plus store and toilet. Rent £325 per annum on lease. Self-contained flat if desired.

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17/6 for 36 words (min.) then 4d. per word.

NORTH DEVON, well-fitted pharmacy, good Health Service connection, Lease 14 years to run, Annual turnover approximately £8,000, Goodwill, lease, fixtures, etc., £2,000, plus stock at valuation. Deferred payment by arrangement. First enquiries to Messrs, L. G. Mason & Co., Chartered Accountants, 3 Fore Street, Bridgwater, Somerset. C 4007

APPOINTMENTS

18/- per half inch (min.) and pro rata.

ADMIRALTY PHARMACISTS

ADMIRALTY PHARMACISTS

Applications are invited from Pharmaceutical Chemists for posts as Pharmacists in Royal Naval Hospitals and Medical Depots at Home and Abroad. Salary scale £500 x £25—£575 x £30—£725. Starting pay according to previous professional experience. Allowance of £25 a year payable in addition to holders of recognised qualifications higher than the normal pharmaceutical qualification. Foreign Service Allowance payable overseas. Prospects of promotion to higher ranks, Superannuation benefits under National Health Service (Superannuation) Regulations 1950: deduction of 6 per cent, made from salary on that account, (Pharmacists due to be entered for compulsory National Service cannot be accepted as candidates for entry in this civilian grade.) Apply to, call at: Medical Department, Admiralty, Queen Anne's Mansions, St., James's Park, London, S.W.1.

BARNET GENERAL HOSPITAL

BARNET GENERAL HOSPITAL,

BARNET GENERAL HOSPITAL,
WELLHOUSE LANE,
BARNET, HERTS
Senior Pharmacist
Applications are invited for the post of Senior
Pharmacist (Category V). The Pharmacy Department is new and well equipped. Salary
£575-£775 plus London Weighting,
Assistant-in-Dispensing
also required. Commencing salary up to £405
according to age, rising to £515 per annum.
Applications stating age, experience, names two
referces, to Hospital Secretary. C 266

CENTRAL MIDDLESEX
HOSPITAL,
PARK ROYAL, N.W.10
Locum Pharmacist
required. Salary 15-16 guineas per weck according to experience, Apply stating age, qualifications and experience with references to Chief
Pharmacist. C 5688

KING EDWARD VII HOSPITAL, WINDSOR

Tel: Belfast 27078

(Category III Hospital)

Pharmacist
required at the above hospital, Apply with details of service and names of three referees to Secretary.

MILE END HOSPITAL, BANCROFT ROAD, LONDON, E.1 (484 beds)

Pharmacist and Student Pharmacist (male or female)
Applications are invited for the above posts, Whitley Council salary and conditions of service. Also:—

vice. Also:

Locum Pharmacist
required immediately, (For further particulars telephone Chief Pharmacist: Advance 2873).
Applications, with copies of testimonials, to the Secretary, Stepney Group Hospital Management Committee, Raine Street, Wapping, E. 1

C 5679

NOTTINGHAM NO. 1 HOSPITAL
MANAGEMENT COMMITTEE
Senior Pharmacist
Applications are invited for the appointment of Senior Pharmacist to take charge of, and develop the Sterile Products Unit at the General Hospital, Nottingham.
Detailed information may be obtained from the Chief Pharmacist.
Applications stating age, qualifications, and experience, particularly in the preparation of Sterile Products, together with the names of two referees, to be sent to the Group Secretary, General Hospital, Nottingham.

C 281

SOUTH WEST MIDDLESEX HOSPITAL MANAGEMENT COMMITTEE, WEST MIDDLESEX HOSPITAL (Category V) Senior Pharmacist

Senior Pharmacist required to take charge of new Sterile Laboratory Should be experienced in this type of work, Salary scale £575—£775, plus London Weighting, and higher qualification allowance £25 per annum, Commencing salary determined by previous experience, Whitley conditions, Applications stating age, qualifications and experience, with copies of testimonials and names and addresses of three referees to Chief Pharmacist, West Middlesex Hospital, Isleworth, Middlesex. C 5681

ST. ALBANS CITY HOSPITAL, NORMANDY ROAD, ST. ALBANS, HERTS

ST. ALBANS, HERTS
(384 Beds)
(a) Senior Pharmacist (Category III)
(b) Pharmacist
Applications are invited immediately for the post of Senior Pharmacist (Category III) at the above busy general Hospital, half an hour from Central London.
Pharmacist also required. This is a newly created post to meet the needs of a busy and expanding department, and would be suitable for a newly qualified person. Whitley Council salaries and conditions. Applications stating age, qualifications and experience to the Chief Pharmacist.

THE LONDON HOSPITAL,
WHITECHAPEL, E.1
Locum Pharmacist
required. Salary 15 or 16 guineas weekly according to experience, Apply to Secretary. C 284

PFIZER, LTD.

MEDICAL REPRESENTATIVES

Owing to continued expansion Pfizer, Ltd., wish to enlarge their Medical Representative Force and invite applications for these positions.

The Company is a British subsidiary of leading American ethical pharmaceutical house.

Preference will be given to applicants with pharmaceutical qualifications or experience with an ethical house. Good starting salary and expenses. Car provided. Noncontributory Pension Scheme. Previous applicants need not re-apply.

Applications, giving full particulars of age, experience, etc., should be made in writing to the Personnel Officer, 137/139 Sandgate Road, Folkestone, Kent.

EXPERIENCED ANALYTICAL CHEMIST

required by well es ablished company near London. Good degree or equivalent and sound experience, preferably in the pharmaceutical industry, essential. The position is partly supervisory in nature. Commencing salary according to qualifications and experience, but not less than £750 p.a. Please apply giving full de'ails to Box C 5680.

Appointments—Continued

ST. ALFEGE'S HOSPITAL,
GREENWICH, S.E.10
(Category IV)
(a) Deputy Chief Pharmacist
(b) Senior Pharmacist of the posts of (a)
Deputy Chief Pharmacist, salary £655-£890 p.a.
(b) Senior Pharmacist, salary £605-£895 p.a., in a well-equipped department at the above hospital, which may be inspected by arrangement with the Chief Pharmacist. Whitley Council conditions, Applications to Acting Secretary, G. & D./H.M.C., at above hospital,

SUNDERLAND EDUCATION COMMITTEE, THE TECHNICAL CÓLLEGE

Applications are invited for the following posts in the Pharmacy Department.

in the Pharmacy Department.

1. Lecturer in Pharmaceutical Subjects
Candidates must be graduates in Pharmacy or
possess a qualification of the Pharmaceutical
Society and a Science Degree. Preference will
be given to candidates who have had teaching,
industrial, hospital, or research experience.
The successful candidate will be required to
teach Pharmaceutical Chemistry and/or Physiology and Pharmacology up to the standard
required for the qualification of the Pharmacceutical Society and the Degree in Pharmacy
of the University of London, He will be encouraged to undertake research, for which excellent facilities are available.
The salary will be in accordance with the
Burnham Technical Scale for Lecturers:—Men,
£1,200 x £30 to £1,350 per annum, Women,
£960 x £24 to £1,080 per annum, plus equal
pay increments.

pay increments.

e960 x £24 to £1,080 per annum, plus equal pay increments.

2. Assistant Lecturer (Grade B) in Pharmaceutical Subjects
Candidates should be graduates in Pharmacy or an Allied Science or possess a qualification of the Pharmaceutical Society. The successful candidate will be required to assist in the teaching of one or more of the following subjects:—Pharmaceutical Chemistry, Physiology, Pharmaceutics and Pharmacology up to the standard required for the examination of the Pharmaceutical Society. They will be offered an opportunity to specialise in the subject of their choice. Good opportunities for further study or research are available in the College. The salary will be in accordance with the Burnham Technical Scale for Assistant (Grade B):—Men, £650 x £25 to £1,025 per annum, Women, £580 x £20 to £820 per annum plus equal pay increments. There are additions to the above scales for training, for University degree or recognised equivalent, and first or second-class Honours. The successful candidates will be required to commence duties as soon as possible. Further particulars and Forms of Application may be obtained from The Registrar, The Technical College, Sunderland, co, Durham. Applications should reach the undersigned within fourteen days of the appearance of this advertisement.

advertisement.

Canvassing will be a disqualification W. THOMPSON.
Director of Education.

Education Offices. 15 John Street, Sunderland, Co. Durham.

C 5676

ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10

Locum Pharmacist
(long- or short-term) required, Salary 16-17
guineas weekly, according to experience, Apply
Chief Pharmacist at hospital (Tel.: Gre. 2655). C 5436

STOCKPORT AND BUXTON HOSPITAL MANAGEMENT COMMITTEE Pharmacists

Applications are invited from suitably qualified candidates for two posts of PHARMACIST, one at Stockport Infirmary and one at Stepping

one at Stockport Inflituals.
Hill Hospital,
Salary scale £500 p.a. rising by annual increments to £725 p.a.
Applications with full particulars, together with copies of two testimonials, or names of referees to the Group Secretary, 593 Shaw Heath,
C 5669

SWINDON & DISTRICT HOSPITAL MANAGEMENT COMMITTEE

Assistant-in-Dispensing
Applications invited for post of Assistant-in-Dispensing in Group Pharmacy, Hospital experience desirable but not essential. Candidates should be over age 22, Salary £355 p.a., rising to £465 p.a., plus £20 p.a., for holders of A.H. Certificate or equivalent, Approved conditions, Application forms from Secretary, Okus Road, Swindon, to be returned by October 1, 1956.

CELLE LINEARY PREMAMENTAL

THE UNITED BIRMINGHAM HOSPITALS, THE QUEEN ELIZABETH HOSPITAL. EDGBASTON, BIRMINGHAM, 15

Pharmacists
Applications are invited from Pharmacists for a post providing a unique introduction to Hospital Pharmacy, Salary in accordance with Whitley Council Scales, Applications to the Chief

TOOTING BEC HOSPITAL, TOOTING BEC ROAD, LONDON, S.W.17

Applications are invited for the post of Pharmacist at this hospital. Salary and conditions of service in accordance with the decisions of the appropriate Whitley Council, Applications, stating age, qualifications and experience, should be sent to the Physician Superintendent at the hospital. C 5672

WEST PARK HOSPITAL,

EPSOM, SURREY
Assistant-in-Dispensing
with Apothecaries' Hall Certificate required.
Salary and conditions of service in accordance
with N.H.S. regulations and Whitley Council
agreements.

with N.H.S. regulations and Whitey Council agreements.

Applications with full particulars and names of two referees to the Physician Superintendent as soon as possible.

C 5673

WHITTINGHAM HOSPITAL

whittingham Hospital, nr. Preston, Lancashire
Senior Pharmacist
(lady or gentleman) required at the above hospital to serve under Chief Pharmacist, Modern, up-to-date pharmacy. Salary, etc., in accordance with Whitley Council conditions. Permanent and pensionable post. Applications to Secretary without delay. C 5677

WORTHING GROUP HOSPITAL MANAGEMENT COMMITTEE, WORTHING HOSPITAL, LYNDHURST ROAD,

WORTHING, SUSEA
Pharmacist

Applications are invited for the appointment of pharmacist (male or female), vacant November 1956, for duties in new Department recently opened, Salary and conditions of service in accordance with Pharmaceutical Whitley Council Scale, age, qualifications and experience, together with the names of two referces, to be forwarded to the Hospital Secretary.

A. V. OAKTON.
Group Secretary.

C 280

SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word. Box 2/-

RETAIL (HOME)

ANDOVER. Cosmetie lady required with good personality and a knowledge of all main agency lines for good-class pharmacy. Staff rest room. Assistance given in obtaining accommodation. Please give details of previous experience, age, and approximate salary required to Wilfrid E. Dale, Ltd., 27 Market Place, Andover, C 4030 BATTERSEA. Pharmacist required, with interest in photography, to manage a good-class establishment in this area. Splendid opportunity for promotion with good supporting staff and development is assured, Apply with full details stating when available for interview to Box C 4028.

BIRMINGHAM CO-OPERATIVE CHEMIST,

Box C 4028.

BIRMINGHAM CO-OPERATIVE CHEMIST,

LIMITED. Pharmacist required, male, for head branch, working under direct supervision of assistant superintendent chemist. Good salof assistant superintendent chemist, Good sal-ary, good conditions, pension, no accommoda-tion. This post carries opportunity for advance-ment. Apply to Birmingham Co-operative Chemist, Limited, 422-424 Coventry Road, Small Heath, Birmingham, 10. C 4029 DISPENSING ASSISTANT, lady, required shortly for middle-class family business, Good hours and easily worked pharmacy, Please give full details of previous experience, age, etc. to Arnold M. Gce, Ltd., 83 Dedworth Road, Windsor. C 4025

Windsor. C 4025
DONCASTER CO-OPERATIVE CHEMISTS
LTD., require the services of pharmacist (male
or female) as branch manager. Payment on
"sales" scale, plus bonus, Salary at smallest
branch over £900 per year. Rota payment
extra, All shops in prosperous industrial areas
where sales increases are possible, 44-hour
week. Applications with usual particulars, to
the Superintendent Chemist, Doncaster Cooperative Chemists, Ltd., P.O. Box 20, Doncaster, LONDON, Hacquiffed, assistant re-

operative Circinisis, Edu., 133. C 278
NORTH LONDON, Unqualified assistant required (lady or gentleman) for good-class business in North Finchley, N.3, near Finchley
Central Station, Dispensing and counter, Hours
9 a.m. to 6 p.m. Thursday 1 p.m. Congenial
position, Salary according to age and experience. Apply with details of previous experience
to Box C 5690.
NORTH LONDON. Unqualified assistant required chiefly for dispensing for business situated at Mill Hill, N.W.7. Apply with fullest
details of experience, also age and suitable
time for an interview, to Box C 5658.

OVERSEAS

Pharmaceutical chemist (male), age about 25 years, unmarried, required by leading Swiss pharmaceutical house for service with its affiliated company in Karachi (Pakistan).

The post is that of assistant to the manager, and offers excellent opportunities to the right man. The successful candidate will receive thorough training in all branches of the pharmaceutical business, i.e.. sales promotion, commercial work, and the supervision of a small finishing unit. Terms will be generous. Young men wishing to make a career in the pharmaceutical business are requested to apply to CIBA Limited, Basle, Switzerland, giving full particulars of their training and experience.

MEDICAL REPRESENTATIVE

required by ethical manufacturers for Staffs, and N. Wales area based on Stoke-on-Trent. Previous representative experience is desirable and either pharmaceutical qualification or pharmaceutical/medical background necessary. Good salary and expenses; excellent prospects for the right man who will be joining an expanding company. Car provided. Superannuation scheme. State salary expected and date available. Applications in confidence to Sales Manager, BAYER PRODUCTS, LTD., Neville House, Eden Street, Kingston-on-Thames, Surrey.

Situations Vacant—Continued

PHARMACIST (under 30) required as assistant to buyer of modern adequately staffed drug and dispensing section of department store, Opportunity to gain wide experience and promotion. Store hours, good holidays, and discount on personal purchases, Apply Personnel Controller, Bentalls of Kingston-on-Thames, Surrey.

Rentalls of Kingston-on-Thames, Surrey.

C 5645

RICHMOND (Near), Pharmacist of proved ability required to manage attractive and modern shop with varied dispensing connection. There is an excellent opportunity of a substantial salary and bonus, Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits, Apply with full details stating when available for interview to Box C 4027.

STOCKTAKERS. Orridge & Company offer permanent careers to applicants having good knowledge of retail prices, drugs, etc. Vacancies in London, Liverpool and Birmingham offices, Attractive salaries, Expenses paid, Previous experience preferred but not essential. Apply 184 Strand, W.C.2.

C 282

VACANCY OCCURS for an experienced male assistant, must be accustomed to busy dispensing and general retail routine. No Sunday rota, Good salary for right man, Tomlinson, Ph.C., 63 Oxford Road, Burnley.

C 279

WANTED: Assistant with knowledge of dispensing, Congenial post, Good wages, London, S.W. Box C 4032.

YORK CO-OPERATIVE CHEMISTS' SOCIETY, LID., require branch manager, lady or gentleman, for new pharmacy in suburb of York. Small. easily worked, but developing business. Good salary and conditions. Self-contained, splendidly equipped modern flat at moderate rental, Apply, giving full details to the Superintendent Chemist, 22 Railway Street, York.

WHOLESALE

WHOLESALE

ALLIED LABORATORIES, LTD.

MEDICAL REPRESENTATIVE required to take over well-established territory comprising Sussex, part of Surrey and Berks. Previous experience desirable and first-class pharmaceutical background essential. Applicants should reside in Sussex and be car owners, Remuneration by arrangement. Life Assurance and Pension Scheme available to established staff, Please write full details in strict confidence to Allied Laboratories, Ltd., 140 Park Lane, London, W.1. C 5501

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C 5634

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C 5660

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C 5587



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confidence to Box C 276.

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C 5657

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